POLARIS®

# Sportsman® Forest 570

## Owner's Manual

### for Maintenance and Safety

**Read this manual carefully. It contains important safety information.**
**This is an adult vehicle only.**
**Operation is prohibited for those under 16 years of age.**

# WELCOME

Thank you for purchasing a POLARIS vehicle, and welcome to our world-wide family of POLARIS enthusiasts. Be sure to visit us online at www.polaris.com for the latest news, new product introductions, upcoming events, career opportunities and more.

Here at POLARIS we proudly produce an exciting line of utility and recreational products.

- Snowmobiles
- All-terrain vehicles (ATVs)
- Low emission vehicles (LEVs)
- *RANGER*® utility vehicles
- *RZR*® sport vehicles
- VICTORY® motorcycles
- GEM® vehicles

Always follow the instructions and recommendations in this manual. The manual contains instructions for minor maintenance, but information about major repairs is outlined in the POLARIS Service Manual and should be performed only by a factory-certified Master Service Dealer® (MSD) technician. Please see your dealer for all of your service needs during (and after) the warranty period.

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Copyright 2013 POLARIS Sales Inc. All information contained within this publication is based on the latest product information at the time of publication. Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. Depictions and/or procedures in this publication are intended for reference use only. No liability can be accepted for omissions or inaccuracies. Any reprinting or reuse of the depictions and/or procedures contained within, whether whole or in part, is expressly prohibited.

The original instructions for this vehicle are in English. Other languages are provided as translations of the original instructions.

Printed in U.S.A.

2014 SPORTSMAN FOREST 570 EFI/EPS Owner's Manual

P/N 9924299

# TABLE OF CONTENTS


Introduction . . . . . 4
Safety . . . . . 8
Features and Controls . . . . . 20
Operation . . . . . 38
Winch Guide . . . . . 58
Emission Control Systems . . . . . 70
Maintenance . . . . . 71
Troubleshooting . . . . . 122
POLARIS Products . . . . . 126
Specifications . . . . . 127
Warranty . . . . . 129
Maintenance Log . . . . . 133
Index . . . . . 135

# INTRODUCTION

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.

⚠

The safety alert symbol indicates a potential personal injury hazard.

## DANGER

A DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

## WARNING

A WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

## CAUTION

A CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

## NOTICE

A NOTICE indicates a situation that could result in property damage.

The Prohibition Safety Sign indicates an action NOT to take in order to avoid a hazard.

The Mandatory Action Sign indicates an action that NEEDS to be taken to avoid a hazard.

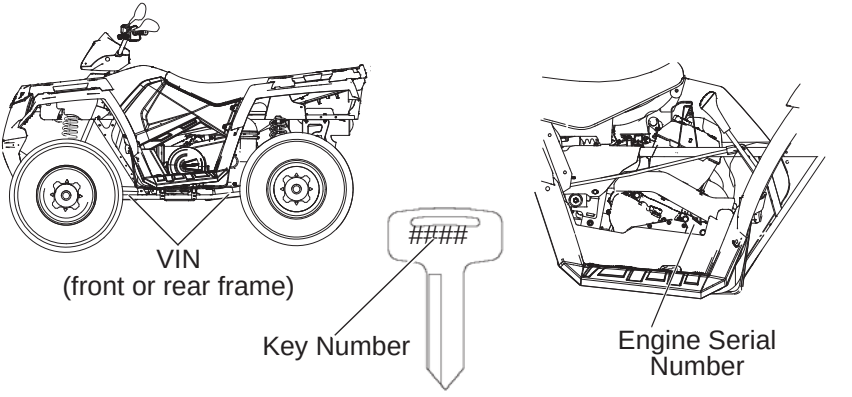
**⚠ WARNING**

Failure to heed the warnings and safety precautions contained in this manual can result in severe injury or death. A POLARIS ATV is not a toy and can be hazardous to operate. This vehicle handles differently than other vehicles, such as motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers like turning, or driving on hills or over obstacles, if you fail to take proper precautions.

- Read this owner's manual. Understand all safety warnings, precautions and operating procedures before operating a POLARIS ATV. Keep this manual with the ATV.
- Never operate an ATV without proper instruction. Take a training course.
- This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under 16 years of age.
- Never permit a guest to operate the ATV unless the guest has read this manual and all product labels and has completed a certified safety training course.
- This vehicle is approved for OFF-ROAD TOWING ONLY. Towing a trailer with this vehicle on public roads is prohibited.

# INTRODUCTION
## Vehicle Identification Numbers

Record your vehicle's identification numbers and key number in the spaces provided. Remove the spare key and store it in a safe place. An ignition key can be duplicated only by ordering a POLARIS key blank (using your key number) and mating it with one of your existing keys. The ignition switch must be replaced if all keys are lost.




Vehicle Model Number: _____

Frame VIN: _____

Engine Serial Number: _____

Key Number: _____

## European Vibration and Noise

The driver-perceived noise and hand/arm and whole body vibration levels of this machinery is measured per prEN 15997.

The operating conditions of the machinery during testing:

The vehicles were in like-new condition. The environment was controlled as indicated by the test procedure(s).

The uncertainty of vibration exposure measurement is dependent on many factors, including:

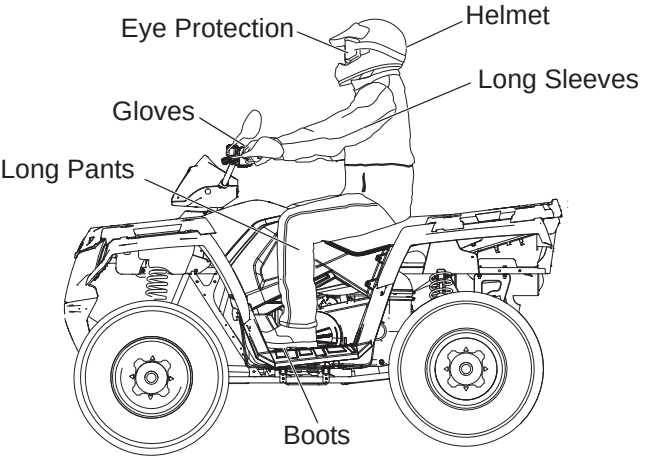
- Instrument and calibration uncertainty
- Variations in the machine such as wear of components
- Variation of machine operators such as experience or physique
- Ability of the worker to reproduce typical work during measurements
- Environmental factors such as ambient noise or temperature

# SAFETY
## Safety Training

Never operate this vehicle without proper instruction. *Take a training course.* For more information about safety, contact an authorized POLARIS dealer or visit the POLARIS web site at www.polaris.com.

## Safe Riding Gear

Always wear appropriate clothing when riding an ATV. Wear protective clothing for comfort and to reduce the chance of injury.

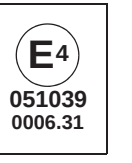



### Helmet

Wearing a helmet can prevent a severe head injury. Whenever riding a POLARIS vehicle, always wear a helmet that meets or exceeds established safety standards.

Approved helmets in the USA and Canada bear a U.S. Department of Transportation (DOT) label.

Approved helmets in Europe, Asia and Oceania bear the ECE 22.05 label. The ECE mark consists of a circle surrounding the letter E, followed by the distinguishing number of the country which has granted approval. The approval number and serial number will also be displayed on the label.



## Safe Riding Gear

### Eye Protection

Do not depend on eyeglasses or sunglasses for eye protection. Whenever riding a POLARIS vehicle, always wear shatterproof goggles or use a shatterproof helmet face shield. POLARIS recommends wearing approved Personal Protective Equipment (PPE) bearing markings such as VESC 8, V-8, Z87.1, or CE. Make sure protective eye wear is kept clean.

### Gloves

Off-road style gloves with knuckle pads are the best for comfort and protection.

### Boots

The best footwear is a pair of sturdy over-the-calf boots with low heels.

### Clothing

Always wear long sleeves and long pants to protect arms and legs. Riding pants with kneepads and a jersey with shoulder pads provide the best protection.

## Equipment Modifications

We strongly recommend that consumers do not install on a POLARIS ATV any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes.

The warranty on your POLARIS ATV is terminated if any equipment has been added to the vehicle, or if any modifications have been made to the vehicle, that increase its speed or power.

The addition of certain accessories, including (but not limited to) mowers, blades, tires, sprayers, or large racks, may change the handling characteristics of the vehicle. Use only POLARIS-approved accessories, and familiarize yourself with their function and effect on the vehicle.

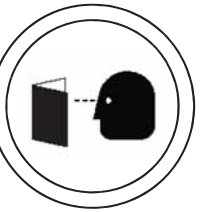
# SAFETY
## Operator Safety

**⚠ WARNING**

Serious injury or death can result if you do not follow the instructions and procedures listed here and throughout this manual.

⚠

Read and understand all warnings, cautions and operating procedures in this manual and on the safety labels before operating the vehicle.



Never operate this vehicle without proper instruction. *Take a training course.* Beginners should receive training from a certified instructor.

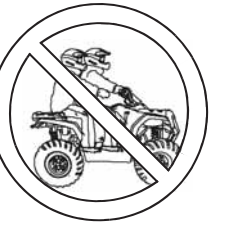
Never permit others to operate the vehicle unless they have read and understand this manual and all product labels, and have completed a certified safety training course.

⚠

Never allow anyone under 16 years of age to operate this vehicle.

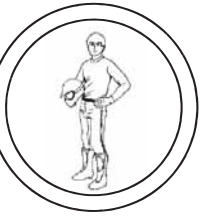
⚠

Never carry a passenger. The purpose of the long seat is to allow the operator to shift position.



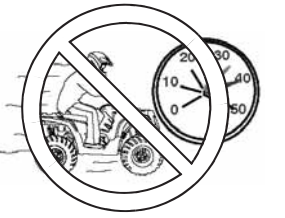
## Operator Safety

Always wear an approved helmet that fits properly. Wear eye protection (goggles or face shield), gloves, boots, long sleeves and long pants.

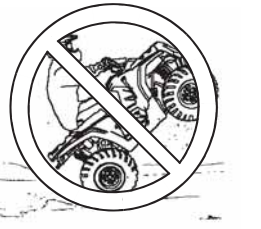


Never consume alcohol or drugs before or while operating this vehicle.

Never operate at excessive speeds. Travel and turn at speeds appropriate for the terrain, visibility, operating conditions and your experience.

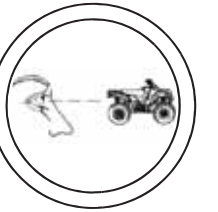



Never attempt jumps or other stunts.

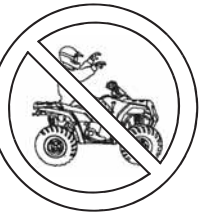


# SAFETY
## Operator Safety

Always inspect your POLARIS vehicle before each use to verify that it's in safe operating condition. Follow the inspection and maintenance procedures outlined in this manual. See page 40.



Keep both hands on the handlebars. Keep your feet on the footrests.



Always travel slowly when operating on unfamiliar terrain. Use extra caution.

Always follow the procedures outlined in this manual for turning. See page 43.

Never turn sharply at excessive speeds, which can lead to vehicle overturn.

## Operator Safety

If the vehicle has been involved in an accident, always have an authorized POLARIS dealer inspect the entire vehicle for possible damage, including (but not limited to) brake, throttle and steering systems.

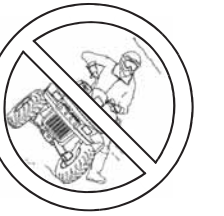
Never operate on hills too steep for the vehicle or for your abilities. Practice on smaller hills before attempting larger hills. Avoid climbing hills steeper than 25°.

Always follow the procedures outlined in this manual for driving on hills. See page 44.

Always follow the procedures outlined in this manual for driving downhill and for braking on hills. See page 47.

Always follow the procedures outlined in this manual for crossing the side of a hill. See page 46.

Never attempt to turn the vehicle around on any hill until you've mastered (on level ground) the turning technique outlined in this manual. See page 48.



# SAFETY
## Operator Safety

Always follow the procedures outlined in this manual for braking if you stall or roll backwards while climbing a hill. Never back down a hill. See page 48.

Always follow the procedures outlined in this manual for operating over obstacles. See page 51.

Always follow the procedures outlined in this manual for operating on slippery or loose surfaces. Use extra caution. Always avoid skidding or sliding. See page 50.

Always follow the procedures outlined in this manual for driving through water. Never drive through deep or fast-flowing water. See page 52.

## Operator Safety

Always follow the procedures outlined in this manual for driving in reverse. See page 54.

Always use the size and type of tires specified for your vehicle. Maintain the proper tire pressure.

Never modify this POLARIS vehicle through improper installation or use of accessories.

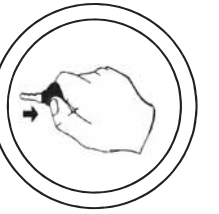
Never exceed the stated load capacity for your vehicle. Cargo must be properly distributed and securely attached. Reduce speed and follow the instructions in this manual for carrying cargo or towing. NEVER exceed 80 km/h when rear cargo loads are above 34 kg and/or front cargo loads are above 17 kg. Allow a greater distance for braking.

# SAFETY
## Operator Safety

Never operate the vehicle on a frozen body of water unless you have independently verified that the ice is sufficiently thick to support the weight and moving force of the vehicle, you and your cargo, together with any other vehicles in your party.

Operating on paved surfaces may affect the handling and control of the vehicle and could result in loss of control. Avoid sudden turns or swift movement of the handlebars.

Always remove the ignition key when the vehicle is not in use to prevent unauthorized use or accidental starting.



Always unlock the steering before starting the engine. See page 25.

Hot components can cause serious burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system.

**For more information about safety, contact an authorized POLARIS dealer or visit the POLARIS web site at www.polaris.com.**

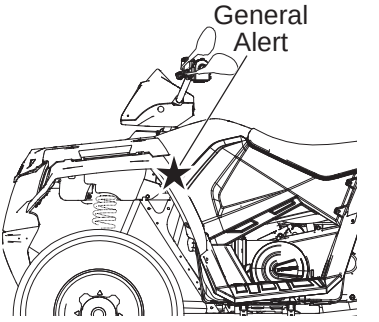
## Safety Labels and Locations

Warning labels have been placed on the vehicle for your protection. Read and follow the instructions on each label carefully. If a label becomes illegible or comes off, contact your POLARIS dealer to purchase a replacement. Replacement safety labels are provided by POLARIS at no charge. The part number is printed on the label.

The following pages repeat the information found on each label.

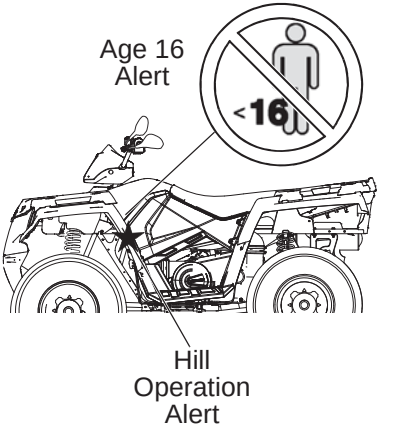
### General Alert (Multi-Lingual)

Before you operate this vehicle, read the owner's manual.

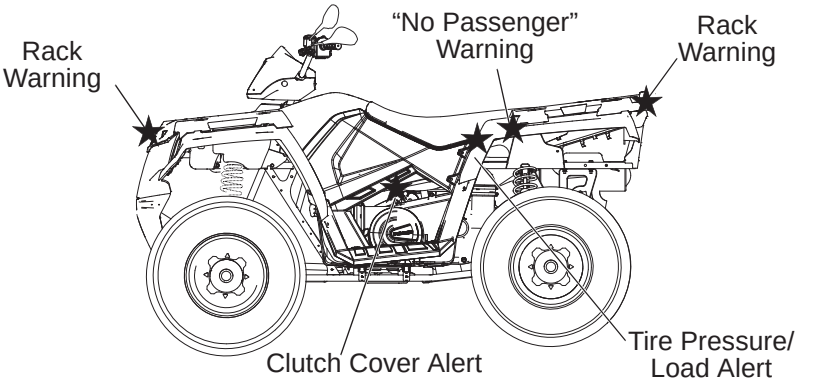



### Hill Operation Alert

- Never operate this vehicle on HILLS steeper than 25 degrees ∠ 25°.
- To prevent flip-over on hilly terrain, when going up or down, use throttle and brakes gradually.



# SAFETY
## Safety Labels and Locations




### "No Passenger" Warning

WARNING - NEVER ride as a passenger. Passengers can cause a loss of control, resulting in SEVERE INJURY or DEATH.

### Tire Pressure/Load Alert

TIRE PRESSURE IN PSI (KPa): FRONT 5 (34.5) REAR 5 (34.5)

MAXIMUM WEIGHT CAPACITY (Gross Vehicle Weight) INCLUDING MACHINE, DRIVER AND CARGO IS 485 LBS. (220 kg). Read Owner's Manual for more detailed loading information.

### Clutch Cover Alert

NO STEP

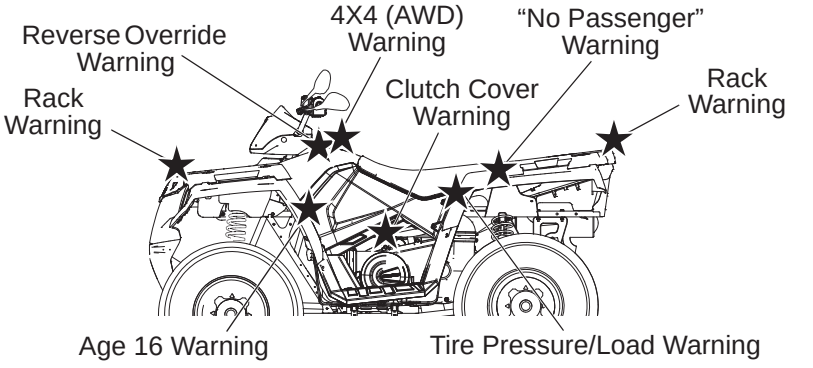
### Rack Warning, Front and Rear

WARNING - DO NOT TOW FROM RACK OR BUMPER. Vehicle damage or tipover may result causing severe injury or death. Tow only from tow hooks or hitch. Maximum Rack Loads: Front 90 lbs. (41 kg) Rear 180 lbs. (82 kg)

### Reverse Override Alert

Pushing reverse override button may cause sudden increases in power and traction if too much throttle is applied. Loss of control or forward flipover may result, especially in AWD. See Owner's Manual.

# Safety Labels and Locations




## Clutch Cover Warning

**WARNING**

- Moving parts hazard under belt-clutch guard. To prevent serious injury, do not operate vehicle with guard removed.
- Do not modify engine or clutch. Doing so can cause part failure, possible imbalance, and excessive engine RPM, which can result in serious injury or death.

NO STEP

## Rack Warning, Front and Rear

**WARNING**

- DO NOT TOW FROM RACK OR BUMPER. Vehicle damage or tipover may result causing severe injury or death. Tow only from tow hooks or hitch.
- Max Rack Loads: Front 90 lbs. (41 kg) Rear 180 lbs. (82 kg)

## Reverse Override Warning

**WARNING**

Improper use of override button can lead to loss of control resulting in serious injury or death. Do not activate override while throttle is engaged. Always apply throttle gradually while in reverse.

## 4X4 (AWD) Caution

**CAUTION**

Do not push switch to engage 4X4 (AWD) if the rear wheels are spinning. This may cause severe drive shaft and clutch damage.

# FEATURES AND CONTROLS

## Switches

### Engine Stop Switch

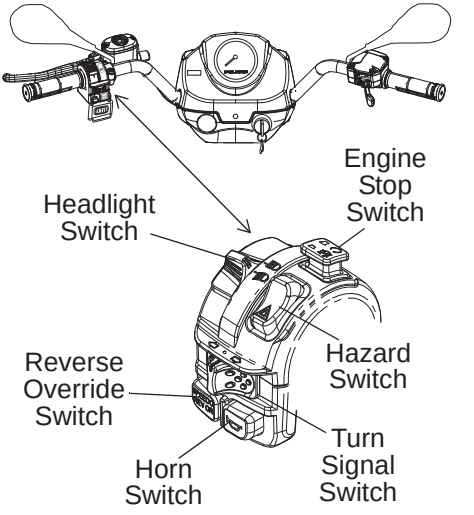
The engine will not start or run when the switch is in the OFF position.

OFF

RUN

Push the stop switch down to stop the engine quickly. Pull the stop switch up to the RUN position before attempting to start the engine.

Both the main switch and the engine stop switch will shut off all electrical power to the vehicle, including lights.




### Mode/Reverse Override Switch

This vehicle is equipped with a reverse speed limiter system. To gain additional wheel speed while backing, release the throttle and depress the override switch.

⚠

Pressing the override switch while the throttle is open can cause loss of control, which may result in serious injury or death. Always release the throttle before pressing the override switch.

The reverse override button also acts as a MODE button when held down for approximately one half second. See the instrument cluster information beginning on page 28. The transmission cannot be in reverse when using the override button as a MODE button.

# Switches

## Headlight Switch

The lights do not operate unless the main key switch is on and the engine stop switch is in the RUN position.

High Beam

Low Beam

## Turn Signal Switch

Push the toggle switch either left or right to activate the corresponding turn signal light. The indicator on the pod will also flash. Return the toggle to the center position to end the signal.

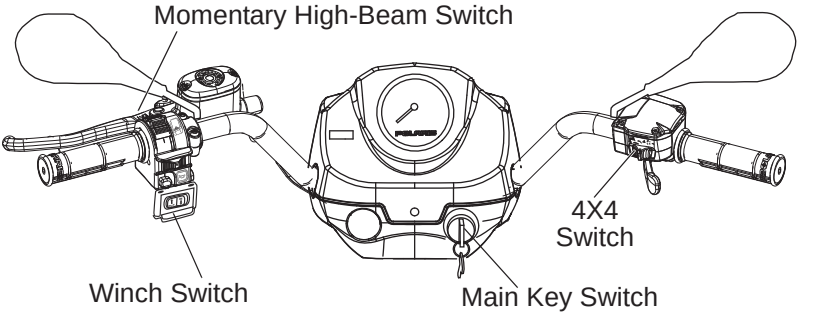
## Horn Switch

Press the horn switch to sound the horn.

## Hazard Warning Switch

Push the hazard warning switch to cause all turn signal lights to flash simultaneously. Use this feature to alert others of an emergency or other situation requiring caution.

# FEATURES AND CONTROLS
## Switches




### Momentary High Beam Switch

Press this switch with your left forefinger to activate the headlight high beam. The lights will return to low beam when the switch is released.

### Winch Switch

See page 58 for winch information.

### Main Key Switch

End all electrical power to the vehicle.

*LIGHTS ON* position turns the headlights on.

Start the engine. The headlights are not on in this position.

After starting the engine, release the key switch to the *PARKING LIGHTS ON* position. The parking lights and taillights are on in this position. See page 41 for starting procedures.

### 4X4 Switch

Use the 4X4 switch to engage 4X4 or 2X4. See page 27.

## Mirrors

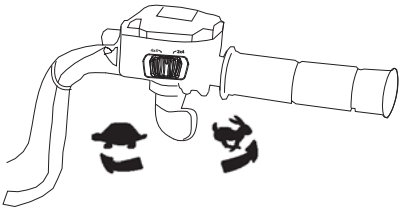
Use the mirrors to assist in traffic maneuvers. Always check and adjust the mirrors before driving the vehicle.

## Throttle Lever

⚠

Failure to check or maintain proper operation of the throttle system can result in an accident if the throttle lever sticks during operation. Check the lever for proper operation before starting the engine. Check occasionally during operation.

Do not start or operate a vehicle with sticking or improperly operating throttle controls. Contact your dealer for repair if throttle problems arise.



Press the throttle lever to increase engine speed and vehicle movement.

Release the lever to reduce engine speed and vehicle movement.

This vehicle is equipped with a throttle release switch, which is designed to reduce the risk of a frozen or stuck throttle. If the throttle cable should stick in an open position when the operator releases the throttle lever, the engine will stop, and power to the rear wheels will cease.

## Electronic Power Steering (EPS)

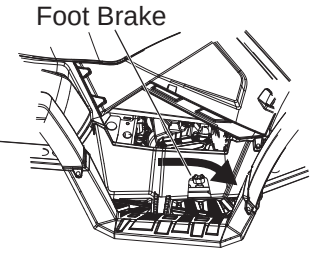
Electronic power steering (EPS), if equipped, engages when the ignition key is turned to the ON position. EPS remains engaged whether the vehicle is moving or idle. See page 29 for EPS Warning Indicator information.

# FEATURES AND CONTROLS

## Foot Brake

The all-wheel foot brake is located on the right footrest. The foot brake operates both front and rear brakes. Press the brake pedal down with your foot to apply the all-wheel brakes.

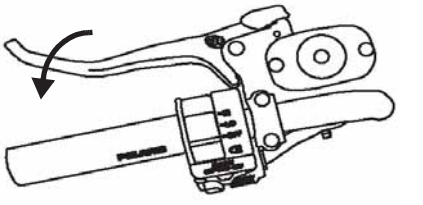
If the rear wheels begin to skid or slide while using the foot brake, reduce brake pressure.




## Hand Brake Lever

The hand brake operates both front and rear brakes. Squeeze the brake lever toward the handlebar to apply the all-wheel brakes.

If the rear wheels begin to skid or slide while using the brake, reduce lever pressure.



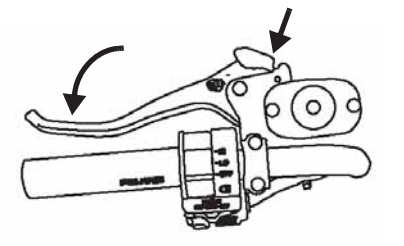
⚠

Aggressively applying the brakes when backing down a hill may cause rear tipover. Aggressively applying the brakes while moving forward may cause the rear wheels to skid and result in loss of control.

Read this owner's manual and understand the operation of all brake systems on this vehicle. Always use caution whenever applying the brakes.

## Parking Brake

### Locking the Parking Brake



1. Place the transmission in PARK.
2. Squeeze the brake lever toward the handlebar.
3. Push the parking brake lock forward to engage the lock.
4. Release the brake lever.
5. To release the parking brake lock, squeeze and release the brake lever.

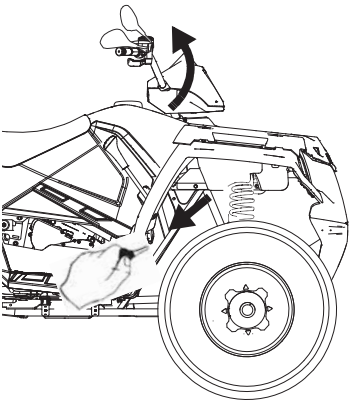
⚠

Operating the vehicle while the parking brake is engaged could result in an accident and serious injury or death. Always release the parking brake lock before operating.

## Steering Lock

Lock the steering to prevent unauthorized use or theft of the vehicle.

**Tip:** Place the steering lock keys in a safe place. The lock must be replaced if the keys are lost.



1. Turn the handlebars to the full left position.
2. Insert the steering lock key and turn it clockwise.
3. Remove the key.
4. Reverse the procedure to unlock the steering.

⚠

The handlebars are locked in the full left position when the steering is locked. Always unlock the steering before starting the engine.

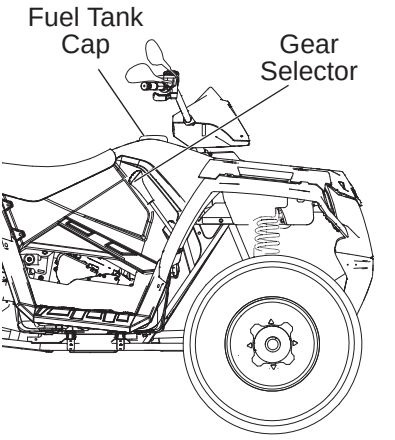
# FEATURES AND CONTROLS

## Fuel Tank Cap

This vehicle is equipped with a digital fuel gauge that will indicate a low fuel condition. Refuel when the gauge indicates a low fuel condition.

Always refuel with the engine stopped, and outdoors or in a well ventilated area. Refuel on a level surface.

Remove the fuel tank cap to add fuel to the fuel tank. Use either leaded or unleaded gasoline with a minimum pump octane number of 87 = (R + M/2) octane. *Do not use fuel with ethanol content greater than 10 percent, such as E-85 fuel.*




## Automatic Transmission Gear Selector

The transmission gear selector is located on the right side of the vehicle.

H: High Gear

L: Low Gear

N: Neutral

R: Reverse

P: Park

To shift gears, brake to a complete stop. When the engine is idling, move the lever to the desired gear.

**NOTICE:** Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage.

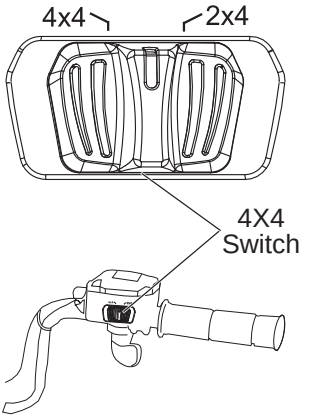
Whenever the vehicle is left unattended, always place the transmission in PARK. The transmission is locked when it's in PARK.

**Belt Life**

To extend belt life, use low forward gear when pulling a heavy load at less than 11 km/h for extended periods and when operating uphill at a slow speed.

## All Wheel Drive System

The All Wheel Drive system is controlled by the 4X4 switch.




### 4X4 Mode

When the switch is on 4X4, the ATV is in 4X4, and the 4X4 indicator icon in the instrument cluster display will be visible.

When in 4X4, the demand drive unit will automatically engage any time the rear wheels lose traction. When the rear wheels regain traction, the demand drive unit will automatically disengage.

There is no limit to the length of time the vehicle may remain in 4X4. The vehicle automatically engages 4X4 when operating in reverse if the switch is set to the 4X4 position.

### 2X4 Mode

When the switch is on 2X4, the ATV is in two-wheel drive at all times.

## Engaging 4X4

The 4X4 switch may be turned on or off while the vehicle is moving. Initially, the vehicle's electronic system will not enable 4X4 until the engine RPM is below 3100. Once enabled, 4X4 remains enabled until the 4X4 switch is turned off. If the switch is turned off while the demand drive unit is moving, it will not disengage until the rear wheels regain traction.

Engage the 4X4 switch before getting into conditions where front wheel drive may be needed. If the rear wheels are spinning, release the throttle before switching to 4X4.

**NOTICE:** Switching to 4X4 while the rear wheels are spinning may cause severe drive shaft and gearcase damage. Always switch to 4X4 while the rear wheels have traction or are at rest.

# FEATURES AND CONTROLS
## Instrument Cluster

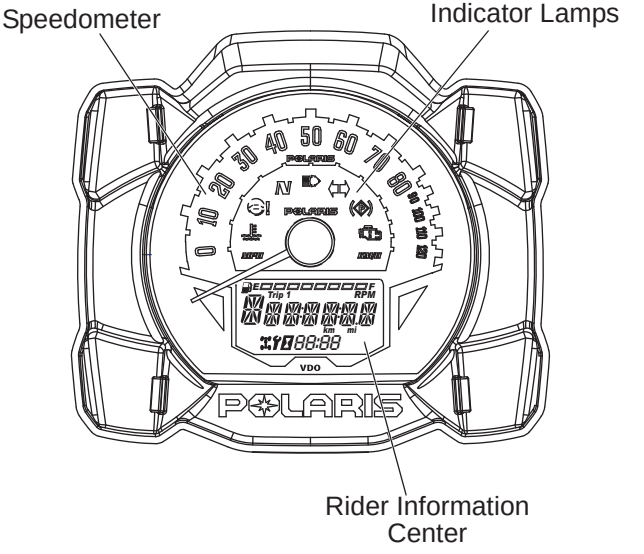
**NOTICE:** High water pressure may damage ATV components. Wash the ATV by hand or with a garden hose using mild soap.

Certain products, including insect repellents and chemicals, will damage the speedometer lens and other plastic surfaces. Do not use alcohol to clean the instrument cluster. Do not allow insect sprays to contact the lens. Immediately clean off any gasoline that splashes on the instrument cluster.

## Digital/Analog Gauge

### Speedometer

The speedometer displays vehicle speed in either miles per hour (MPH) or kilometers per hour (km/h).



# Instrument Cluster

## Digital/Analog Gauge

### Indicator Lamps

| Lamp | Indicates | Condition |
|---|---|---|
| MPH | Vehicle Speed | When standard mode is selected, speed displays in miles per hour. |
| KM/H | | When metric mode is selected, speed displays in kilometers per hour. |
| | Over Temperature | This lamp flashes to indicate an overheated engine. If the indicator stops flashing but remains illuminated, the overheating condition remains, and the system will automatically reduce engine power. |
| | EPS Warning (if equipped) | This indicator illuminates when the key is turned to the ON position and goes off when the engine is started. If the light remains on after starting the engine, the EPS system is inoperative. See your authorized POLARIS dealer for service. |
| | Neutral | This lamp illuminates when the transmission is in neutral and the ignition key is in the ON position. |
| | High Beam | This lamp illuminates when the headlamp switch is set to high beam. |
| | Check Engine | This indicator appears if an EFI-related fault occurs. Do not operate the ATV if this warning appears. Serious engine damage could result. See your dealer. |

# FEATURES AND CONTROLS

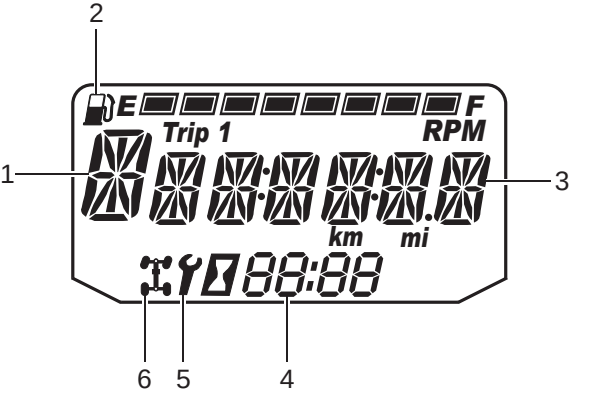
## Instrument Cluster

### Digital/Analog Gauge

#### Rider Information Center

The rider information center is located in the instrument cluster. All segments will light up for one second at start-up. If the instrument cluster fails to illuminate, a battery over-voltage may have occurred and the instrument cluster may have shut off to protect the electronic speedometer. If this occurs, take the ATV to your POLARIS dealer for proper diagnosis.

The information center is set to display standard units of measurement and a 12-hour clock at the factory. To change to metric and/or a 24-hour clock, see page 33.



# Instrument Cluster

## Digital/Analog Gauge

### Rider Information Center

1. **Gear Display -** This area displays gear shifter position:
   H = High Gear
   L = Low Gear
   N = Neutral
   R = Reverse Gear
   P = Park
   -- = Gear Signal Error (or shifter between gears)
2. **Fuel Gauge Display -** The segments of the fuel gauge show the level of fuel in the fuel tank. When the last segment clears, a low fuel warning is activated. All segments including the fuel icon will flash. Refuel immediately.

**Tip:** If the fuel icon fails to display, an open or short circuit has occurred in the fuel sensor circuit. See your dealer.

3. **Information Display -** This area displays odometer, trip meter, engine hour meter, engine speed and programmable service hour interval.
4. **Clock Display** - The clock displays time in a 12-hour or 24-hour format. If the engine is turned off, press the MODE button. The time will display for 5-10 seconds. See page 33 for resetting instructions.
5. **Service Reminder Display -** A flashing wrench symbol alerts the operator that the preset service interval has been reached. The vehicle should be brought to your dealer for scheduled maintenance. See page 33 for resetting instructions.
6. **4X4 Display -** This icon displays when the 4X4 system is engaged.

# FEATURES AND CONTROLS
## Instrument Cluster
### Digital/Analog Gauge
#### Rider Information Center

The reverse override button acts as the MODE button when pressed and released quickly. The transmission cannot be in reverse when using the override button as a MODE button. This feature does not contain a vehicle speed lockout function and can be used at any operating speed.

**Display Units (Standard/Metric)**

The display can be changed to display either standard or metric units of measurement.

**Tip:** To exit the set-up mode at any time, wait 10 seconds. The display automatically exits and returns to the odometer display.

| | Standard Display | Metric Display |
|---|---|---|
| **Distance** | Miles | Kilometers |
| **Time** | 12-Hour Clock | 24-Hour Clock |

1. Turn the key to the OFF position.
2. Place the transmission in neutral.
3. Press and *hold* the MODE button while turning the key to the ON position.
4. When the display flashes the distance setting, tap the MODE button to advance to the desired setting.
5. Press and *hold* the MODE button to save the setting and advance to the next display option.
6. Repeat the procedure to change remaining display settings.

# Instrument Cluster

## Digital/Analog Gauge

### Rider Information Center

#### Clock Mode

**Tip:** The clock must be reset any time the battery has been disconnected or discharged.

1. Turn the key to the ON position. Use the MODE button to toggle to the odometer display.
2. Press and *hold* the MODE button until the hour segment flashes. Release the button.
3. With the segment flashing, tap the MODE button to advance to the desired setting.
4. Press and *hold* the MODE button until the next segment flashes. Release the button.
5. Repeat steps 3-4 twice to set the 10-minute and 1-minute segments. After completing the 1-minute segment, step 4 will save the new settings and exit the clock mode.
6. Turn the key to the OFF position.

#### Odometer Mode

The odometer records and displays the distance traveled by the ATV.

#### Trip Meter Mode

The trip meter records the distance traveled by the ATV if reset before each trip. To reset, select the trip meter mode. Press and hold the MODE button until the meter resets to zero. In the Rider Information Center, the trip meter display contains a decimal point, but the odometer displays without a decimal point.

#### Hour Meter Mode

This mode logs the total hours the engine has been in operation.

# FEATURES AND CONTROLS
## Instrument Cluster
### Digital/Analog Gauge
#### Rider Information Center
**Programmable Service Interval**

When the hours of engine operation equal the programmed service interval setting, the wrench icon will flash for 5 seconds each time the engine is started. When this feature is enabled, it provides a convenient reminder to perform routine maintenance. The service interval is programmed at 50 hours at the factory. Use the following procedure to change the service interval.

1. Press the MODE button until remaining service hours display.
2. Press and hold the MODE button.
3. When the service hours flash, press and release the MODE button to advance the hours to the desired setting (including OFF). Press and hold the MODE button to set the new service hour interval.

**Diagnostic Display Mode**

The EFI diagnostic display mode is for informational purposes only. Please see your POLARIS dealer for all major repairs.

The diagnostic mode is accessible only when the check engine warning indicator activates after the key has been turned on. Leave the key on if you want to view the active code (failure code).

The diagnostic mode becomes inaccessible if the key is turned off and on and the warning indicator is no longer active. This allows the determination of persistent as well as intermittent faults.

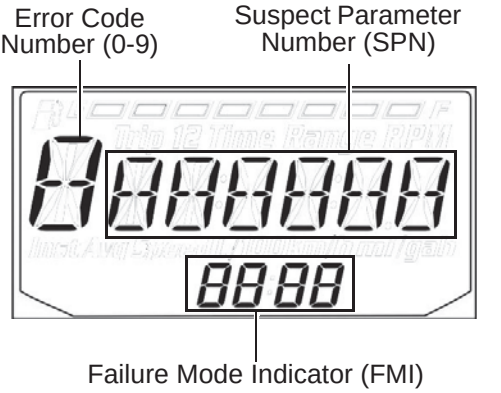
Inactive codes are stored in the history of the unit.

# Instrument Cluster

## Digital/Analog Gauge

### Rider Information Center

#### Engine Error Codes




The error screen displays only when the CHECK ENGINE light is on or when it goes on and off during one ignition cycle. Error codes are not stored in the gauge when the key is turned off. The code and message is lost, but will reappear if the fault reoccurs after restarting the engine.

If the CHECK ENGINE light illuminates, retrieve the error codes from the display. Please see your Polaris dealer for all major repairs.

1. If the error codes are not displayed, use the MODE button to toggle until “Ck ENG” displays on the main line of the display.
2. Press and hold the MODE button to enter the diagnostics code menu.
3. Record the numbers displayed in the gear position (if any), clock and odometer displays.
4. Press the MODE button to advance to the next error code.
5. Press and hold the MODE button to exit the diagnostics code menu.
6. See pages 36-37 for code definitions and failure descriptions. Please see your Polaris dealer for all major repairs.

# FEATURES AND CONTROLS
## Instrument Cluster
### Diagnostic Display Code Definitions

*Open Load:* There is a break in the wires that lead to the item listed in the chart (injector, fuel pump, etc.), or the item has failed.

*Short-to-Ground:* The wire is shorted to ground between the electronic control unit and the item listed in the chart.

*Shorted Load*: The wires leading to the item listed in the chart are shorted together, or the item has shorted internally.

*Short-to-Battery:* The wire leading from the item listed in the chart to the electronic control unit is shorted to a wire at battery voltage.

| SPORTSMAN 570 EFI/570 EPS Diagnostic Codes | | | |
|---|---|---|---|
| **Component** | **Condition** | **SPN** | **FMI** |
| Throttle Position Sensor | Voltage Too High | 51 | 3 |
| | Voltage Too Low | 51 | 4 |
| Engine Temperature Sensor | Voltage Too High | 110 | 3 |
| | Voltage Too Low | 110 | 4 |
| | Temperature Too High | 110 | 16 |
| | Engine Overheat Shutdown | 110 | 0 |
| Intake Air Temperature Sensor | Voltage Too High | 105 | 3 |
| | Voltage Too Low | 105 | 4 |
| Manifold Absolute Pressure Sensor | Voltage Too High | 102 | 3 |
| | Voltage Too Low | 102 | 4 |
| Crankshaft Position Sensor | Circuit Fault | 636 | 8 |
| Gear Sensor Signal | Voltage Too Low (to Calibrate) | 523 | 4 |
| | Voltage Too High | 523 | 3 |
| | Signal Fault | 523 | 2 |
| Injector 1 (MAG) | Driver Circuit Open/Grounded | 651 | 5 |
| | Driver Circuit Short to B+ | 651 | 3 |
| Ignition Coil Primary Driver 1 (MAG) | Driver Open/Grounded | 1268 | 5 |
| | Driver Circuit Short to B+ | 1268 | 3 |
| Fuel Pump Driver Circuit | Driver Circuit Open/Grounded | 1347 | 5 |
| | Driver Circuit Short to B+ | 1347 | 3 |
| Fan Relay Driver Circuit | Driver Circuit Open/Grounded | 1071 | 5 |
| | Driver Circuit Short to B+ | 1071 | 3 |

# Instrument Cluster

## Diagnostic Display Code Definitions

| SPORTSMAN 570 EFI/570 EPS Diagnostic Codes | | | |
|---|---|---|---|
| **Component** | **Condition** | **SPN** | **FMI** |
| Idle Air Control | Driver Circuit Grounded | 520193 | 5 |
| | Shorted Load* | 520193 | 11 |
| Starter Enable Circuit | Driver Circuit Short to B+ | 1321 | 3 |
| All Wheel Drive Control | Driver Circuit Short to B+ | 520207 | 3 |
| System Power | Voltage Too High | 168 | 3 |
| | Voltage Too low | 168 | 4 |
| Throttle Safety Signal | Voltage Too High | 520194 | 3 |
| | Voltage Too Low | 520194 | 4 |
| | Signal Out of Range | 520194 | 2 |
| | Throttle Stuck | 520194 | 7 |
| Active Descent Control System | Driver Circuit Short to B+ | 520203 | 3 |
| **EPS Models Only** | | | |
| Steering Over Current Shut Down | Current Above Normal or Grounded | 520221 | 6 |
| Steering Excessive Current Error | Current Above Normal or Grounded | 520222 | 6 |
| Steering Torque Sensor T1 Partial Failure | T1 Shorted to Ground | 520223 | 4 |
| | T1 Shorted to Bus | 520223 | 3 |
| Steering Torque Sensor T2 Partial Failure | T2 Shorted to Ground | 520224 | 4 |
| | T2 Shorted to Bus | 520224 | 3 |
| Steering Torque Sensor Full Failure | T1 and T2 Shorted to Ground | 520225 | 4 |
| | T1 and T2 Shorted to Bus | 520225 | 3 |
| | T1 Shorted to Ground & T2 Shorted to Bus | 520225 | 16 |
| | T2 Shorted to Ground & T1 Shorted to Bus | 520225 | 17 |
| | T1 and T2 are Shorted | 520225 | 2 |
| Steering Position Sensor P1 Partial Failure0 | P1 Shorted to Ground | 520226 | 4 |
| | P1 Shorted to Bus | 520226 | 3 |
| Steering Position Sensor P2 Partial Failure | P2 Shorted to Ground | 520227 | 4 |
| | P2 Shorted to Bus | 520227 | 3 |
| Steering Position Sensor Full Failure1 | P1 and P2 Shorted to Ground | 520228 | 4 |
| | P1 and P2 Shorted to bus | 520228 | 3 |
| EPAS Inverter Temperature | Greater than 110 Degrees C | 520229 | 16 |
| | Greater than 120 Degrees C | 520229 | 0 |
| EPAS CAN Communications Receive Error | No RX Message for 2 Seconds | 520230 | 9 |
| EPAS CAN Communications Transmit Error | No TX Message for 2 Seconds | 520231 | 9 |

*Assumes unipolar configuration of stepper motor

# OPERATION

**⚠ WARNING**

Failure to operate the ATV properly can result in a collision, loss of control, accident or rollover, which may result in serious injury or death. Read and understand all safety warnings outlined in the safety section of this owner's manual.

## Break-In Period

The break-in period for your new POLARIS ATV is the first 20 hours of operation. No single action on your part is as important as following the procedures for a proper break-in. Careful treatment of a new engine and drive components will result in more efficient performance and longer life for these components.

**NOTICE:** Excessive heat build-up during the first three hours of operation will damage close-fitted engine parts and drive components. Do not operate at full throttle or high speeds during the first three hours of use.

# Break-In Period

## Engine and Drivetrain Break-in

1. Fill the fuel tank with gasoline. See page 26. Always exercise extreme caution whenever handling gasoline.
2. Check the oil level on the dipstick. See page 77. Add oil if necessary to maintain the level between the safe and add marks.
3. Drive slowly at first. Select an open area that allows room to familiarize yourself with vehicle operation and handling.
4. Vary the throttle positions. Do not operate at sustained idle.
5. Perform regular checks on fluid levels, controls and areas outlined on the daily pre-ride inspection checklist. See page 40.
6. Pull only light loads.
7. Change both the oil and the filter at 25 hours.
8. Check fluid levels of transmission and all gearcases after the first 25 hours of operation and every 100 hours thereafter.

## PVT Break-in (Clutches/Belt)

A proper break-in of the clutches and drive belt will ensure a longer life and better performance. Break in the clutches and belt by operating at slower speeds during the break-in period as recommended. Pull only light loads. Avoid aggressive acceleration and high speed operation during the break-in period.

If a belt fails, always clean away all debris when replacing the belt.

# OPERATION
## Pre-Ride Checklist

Failure to inspect and verify that the ATV is in safe operating condition before operating increases the risk of an accident. Always inspect the ATV before each use to make sure it's in safe operating condition.

| Item | Remarks | Page |
|---|---|---|
| Foot brake | Ensure proper operation | 24 |
| Hand brake/lever travel | Ensure proper operation | 87 |
| Brake fluid | Ensure proper level | 85 |
| Front suspension | Inspect, lubricate if necessary | 75 |
| Rear suspension | Inspect, lubricate if necessary | 75 |
| Steering/steering lock | Unlock the steering; ensure free operation | 25 |
| Tires | Inspect condition and pressure | 92 |
| Wheels/fasteners | Inspect, ensure fastener tightness | 92<br>93 |
| Frame nuts, bolts, fasteners | Inspect, ensure tightness | - |
| Fuel and oil | Ensure proper levels | 26<br>77 |
| Coolant level (if applicable) | Ensure proper level | 83<br>84 |
| Coolant hoses (if applicable) | Inspect for leaks | - |
| Throttle | Ensure proper operation | 23<br>114 |
| Indicator lights/switches | Ensure operation | 20 |
| Engine stop switch | Ensure proper operation | 20 |
| Mirrors | Adjust for best side/rear vision | 22 |
| Air filter, pre-filter | Inspect, clean | 94 |
| Air box sediment tube | Drain deposits whenever visible | - |
| Headlamp | Check operation, apply POLARIS dielectric grease when lamp is replaced | 21<br>97 |
| Brake light/taillight | Check operation, apply POLARIS dielectric grease when lamp is replaced | 99 |
| Riding gear | Wear approved helmet, goggles, and protective clothing | 8 |
| Winch (if equipped) | Inspect cable and switch | 58-69 |

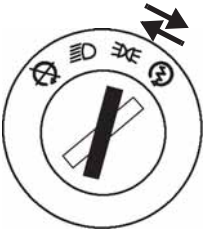
## Starting the Engine

Engine exhaust contains poisonous carbon monoxide and can cause loss of consciousness resulting in severe injury or death. Never run an engine in an enclosed area.

1. Position the vehicle on a level surface outdoors or in a well-ventilated area.
2. Place the transmission in PARK.

**Tip:** The starter interlock will prevent the engine from starting if the transmission is in gear and the brake is not engaged.

3. Sit on the vehicle and move the engine stop switch to RUN.
4. Do not press the throttle while starting the engine.
5. Turn the ignition key past the PARKING LIGHTS ON position to engage the starter. Activate the starter for a maximum of five seconds, releasing the key when the engine starts.
6. If the engine does not start, release the starter and wait five seconds.
7. Repeat steps 5 and 6 until the engine starts.

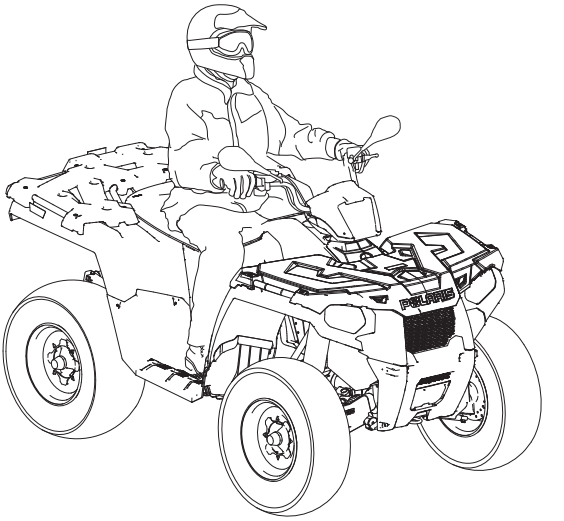


**NOTICE:** Operating the vehicle immediately after starting could cause engine damage. Allow the engine to warm up for several minutes before operating the vehicle.

### Cold Weather Operation

If the ATV is used year-round, check the oil level frequently. A rising oil level could indicate the accumulation of contaminates such as water or excess fuel in the bottom of the crankcase. Water in the bottom of the crankcase can lead to engine damage and must be drained. Water accumulation increases as outside temperature decreases.

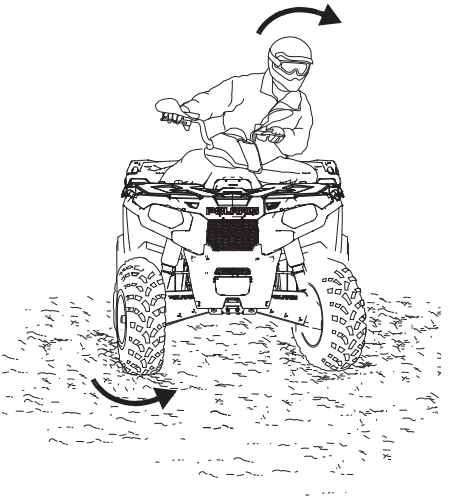
# OPERATION
## Driving Procedures



1. Wear a helmet and eye protection. See page 8.
2. Sit upright with both feet on the footrests and both hands on the handlebars.
3. Start the engine and allow it to warm up.
4. Shift the transmission into gear.
5. Check your surroundings and determine your path of travel.
6. Slowly depress the throttle with your right thumb and begin driving.
7. Drive slowly. Practice maneuvering and using the throttle and brakes on level surfaces.

## Turning the Vehicle

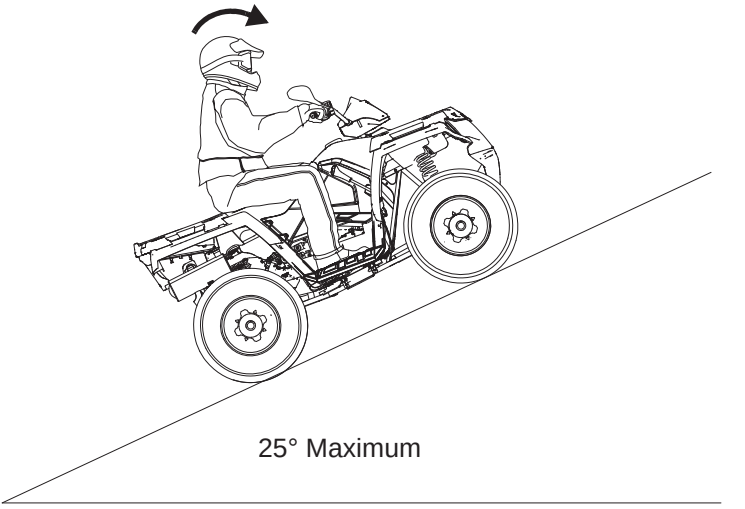
1. Before turning, activate a turn signal to alert others of your intentions. Activate the left signal before a left turn. Activate the right signal before a right turn.
2. Steer in the direction of the turn, leaning your upper body to the inside of the turn while supporting your weight on the outer footrest. Use the same leaning technique for turning in reverse.
3. Practice making turns at slow speeds before attempting to turn at faster speeds.



⚠

Always follow the procedures outlined in this manual for turning. Never turn sharply at excessive speeds, which can lead to vehicle overturn.

# OPERATION
## Driving Uphill




Braking and handling are greatly affected when operating in hilly terrain. Improper procedure could cause loss of control or rollover. Whenever traveling uphill, follow these precautions:

1. Drive straight uphill.
2. Avoid steep hills (25° maximum).
3. Always check the terrain carefully before ascending any hill.
4. Never climb hills with excessively slippery or loose surfaces.
5. Keep both feet on the footrests.
6. Shift your weight uphill.
7. Proceed at a steady rate of speed and throttle opening. Opening the throttle suddenly could cause the ATV to flip over backwards.
8. Remain alert and be prepared to take emergency action. This may include quick dismounting of the vehicle.

# Driving Safely

## Driving Uphill

***If all forward speed is lost:***

Keep your weight uphill.

*If the vehicle begins rolling downhill, never apply engine power. Never apply the brakes aggressively while rolling backwards.*

Apply the brakes gradually. When fully stopped, lock the hydraulic parking brake. See page 25.

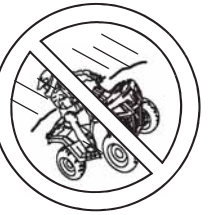
Dismount on the uphill side, or to either side if the vehicle is pointed straight uphill. Turn the vehicle around using the K-Turn. See page 48.

⚠

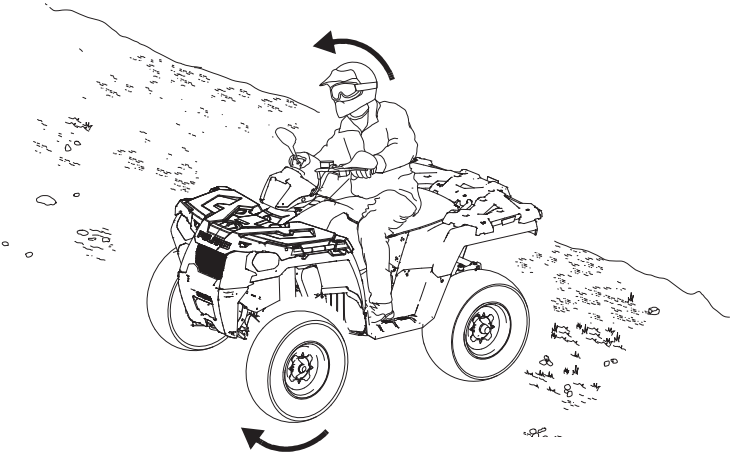
Always follow the procedures outlined in this manual for climbing hills. Avoid climbing hills steeper than 25°.

⚠

Always follow the procedures outlined in this manual for braking if you stall or roll backwards while climbing a hill. Never back down a hill.



# OPERATION
## Driving on a Sidehill (Sidehilling)



Driving on a sidehill is not recommended. Improper procedure could cause loss of control or rollover. Avoid crossing the side of any hill unless absolutely necessary.

If crossing a sidehill is *unavoidable,* follow these precautions:

1. Slow down.
2. Avoid crossing the side of a steep hill.
3. Shift body weight uphill.
4. Keep your feet on the footrests.
5. Steer slightly into the hill to maintain vehicle direction.
6. If the vehicle begins to tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side *immediately*!

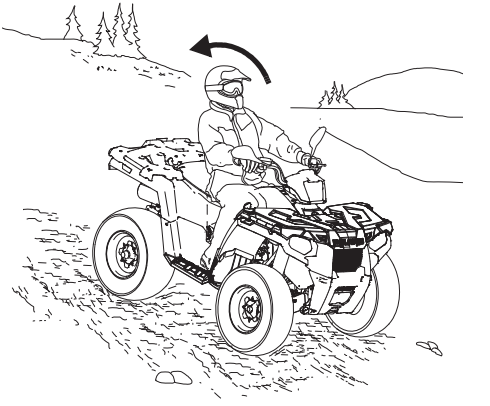
⚠

Always follow the procedures outlined in this manual for crossing the side of a hill.

Never attempt to turn the vehicle around on any hill until you've mastered (on level ground) the turning technique outlined in this manual.

## Driving Downhill

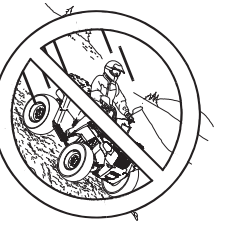
When driving downhill, follow these precautions:



1. Check the terrain carefully.
2. Avoid hills with excessively slippery or loose surfaces.
3. Never drive downhill at high speed.
4. Slow down.
5. Avoid driving downhill at an angle, which can cause the vehicle to pitch sharply to one side. Drive straight downhill.
6. Shift your weight rearward.
7. Apply the brakes *slightly* to aid in slowing.

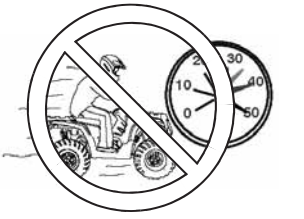
⚠

Always follow the procedures outlined in this manual for driving downhill and for braking on hills.



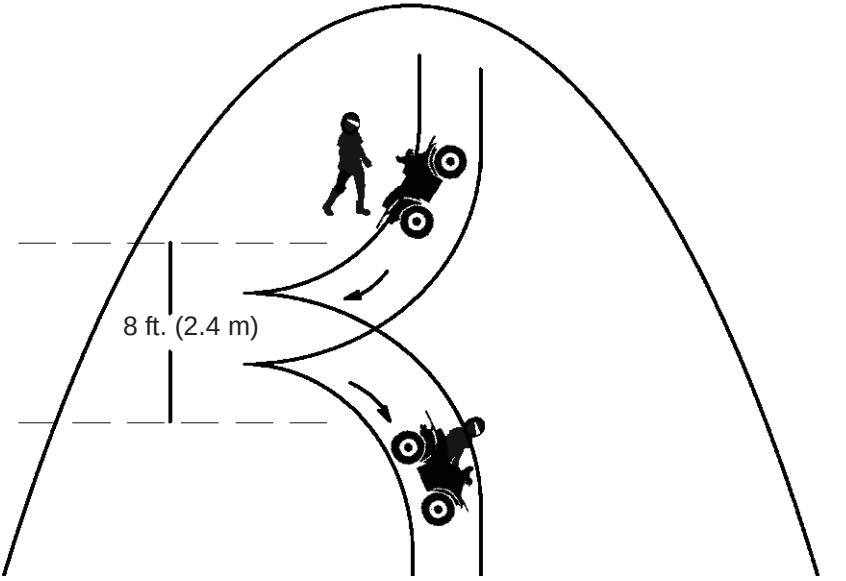
⚠

Never operate at excessive speeds. Travel and turn at speeds appropriate for the terrain, visibility, operating conditions and your experience.



# OPERATION
## Turning Around on a Hill (K-Turn)

If the vehicle stalls while climbing a hill, never back it down the hill! Use the K-turn to turn around.




1. Stop the vehicle. Keep your weight uphill.
2. Lock the hydraulic parking brake.
3. Leave the transmission in forward gear. Turn the engine off.
4. Dismount on the uphill side of the vehicle, or on the left if the vehicle is pointing straight uphill.
5. Stay uphill of the vehicle and turn the handlebars full left.
6. Squeeze the brake lever to release the parking brake.
7. Slowly release the brake lever and allow the vehicle to roll around to your right until it's pointing across the hill or slightly downward.

## Turning Around on a Hill (K-Turn)

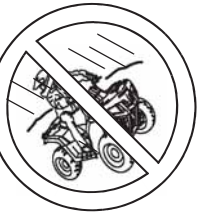
8. Lock the hydraulic parking brake.
9. Remount from the uphill side. Keep your weight uphill.
10. Apply the foot brake.
11. With the transmission still in forward, start the engine.
12. Squeeze and release the brake lever to release the parking brake.
13. Release the foot brake and drive *slowly* downhill. Control speed with either the hand or foot brake until the vehicle is on level ground.

⚠

Always follow the procedures outlined in this manual for climbing hills. See page 44.

⚠

Always follow the procedures outlined in this manual for braking if you stall or roll backwards while climbing a hill. Never back down a hill.

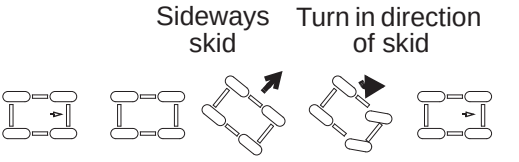


# OPERATION
## Driving on Slippery Surfaces

Whenever riding on slippery surfaces such as wet trails or loose gravel, or during freezing weather, follow these precautions:

1. Do not operate on excessively rough, slippery or loose terrain.
2. Slow down when entering slippery areas.
3. Engage 4X4 before wheels begin to lose traction.

**NOTICE:** Severe damage to drive train may occur if the 4X4 is engaged while the wheels are spinning. Allow the rear wheels to stop spinning before engaging 4X4, or engage 4X4 before wheels begin to lose traction.

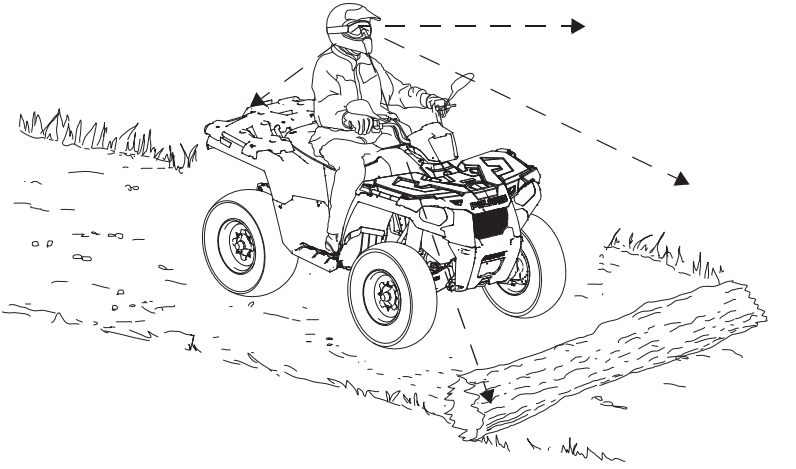



4. Be alert. Watch the trail. Avoid quick, sharp turns.
5. Never apply the brakes during a skid. Correct a skid by turning the handlebars in the direction of the skid and shifting your body weight forward.

⚠

Always follow the procedures outlined in this manual for operating on slippery or loose surfaces. Use extra caution. Always avoid skidding or sliding.

## Driving Over Obstacles



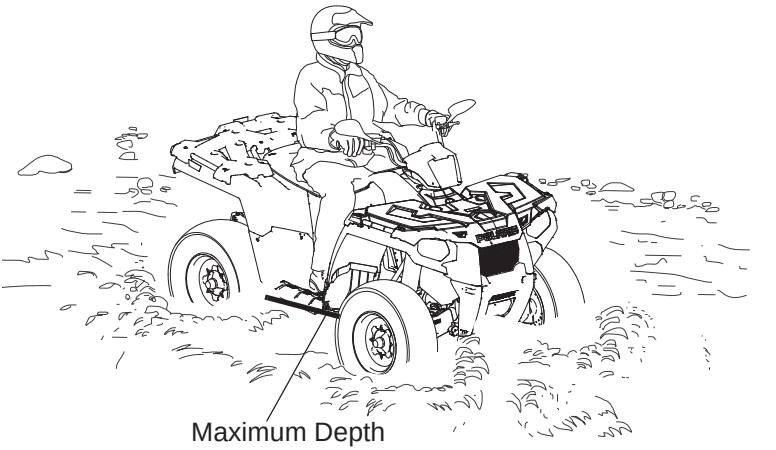
Follow these precautions when operating over obstacles:

1. Always check for obstacles before operating in a new area. Serious injury or death can result if your vehicle comes in contact with a hidden obstacle.
2. Be alert. Watch the terrain. Use extra caution.
3. Never operate over large obstacles.
4. Avoid hazards such as logs, rocks and low branches.

⚠

Always follow the procedures outlined in this manual for operating over obstacles.

# OPERATION
## Driving Through Water




Follow these procedures when driving through water:

1. Check water depth and current before crossing.
2. Avoid operating in water deeper than the bottom of the footrests. If it's unavoidable, travel slowly, balance your weight carefully and avoid sudden movements. Maintain a slow and steady forward motion. Do not make sudden turns, stops or throttle changes.
3. Choose a crossing where both banks have gradual inclines.
4. Drive slowly. Avoid rocks and obstacles.
5. Wet brakes may have reduced stopping ability. Always test your brakes after leaving water. If necessary, apply them lightly several times to allow friction to dry out the pads.

## Driving Through Water

If your vehicle becomes fully immersed, and it's impossible to take it to a dealer before starting it, follow the steps described on page 102. Have the vehicle serviced by your dealer promptly.

If water has been ingested into the transmission (PVT), follow the procedure on page 102.

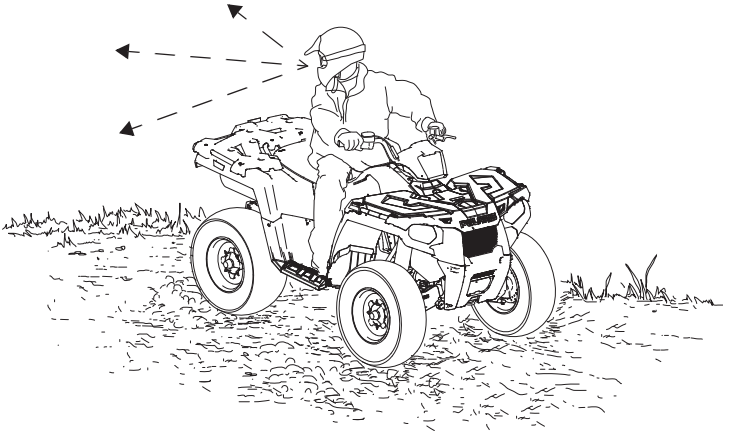
⚠

Always follow the procedures outlined in this manual for driving through water. Never drive through deep or fast-flowing water.

⚠

If the vehicle stops while fully submerged, major engine damage can result if the machine is not thoroughly inspected. Take the vehicle to your dealer before starting the engine.

# OPERATION
## Driving in Reverse



Follow these precautions when operating in reverse:

1. Always check for obstacles or people behind the vehicle.
2. Always avoid backing downhill.
3. Back slowly.
4. Apply the brakes *lightly* for stopping.
5. Avoid turning at sharp angles.
6. Never open the throttle suddenly.
7. Do not use the override button unless additional wheel speed is required for vehicle movement. Use the override with caution as rearward vehicle speed is greatly increased. Do not operate at wide open throttle. Operate the throttle just enough to maintain a desired speed.

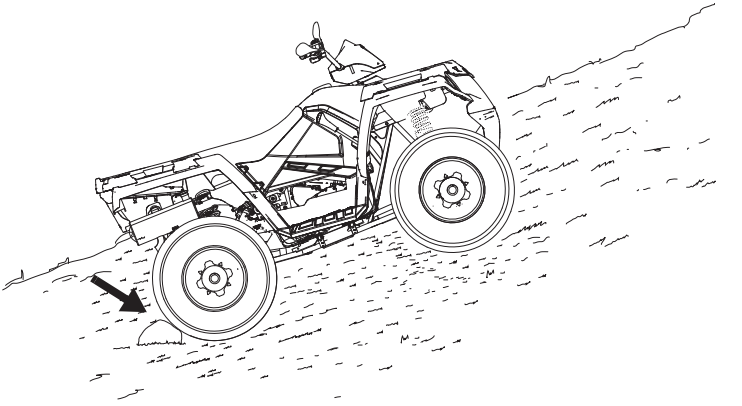
⚠

Excessive throttle operation while in the speed limit mode may cause fuel to build in the exhaust, resulting in engine popping and/or engine damage.

⚠

Always follow the procedures outlined in this manual for driving in reverse.

## Parking on an Incline



Avoid parking on an incline if possible. If it's unavoidable, follow these precautions:

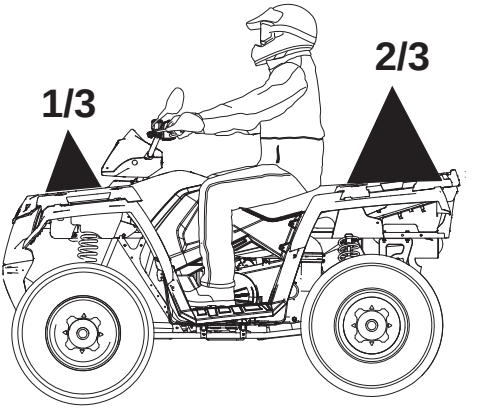
1. Stop the engine.
2. Place the transmission in PARK.
3. Always block the rear wheels on the downhill side.

# OPERATION
## Hauling Cargo

Overloading the vehicle or carrying or towing cargo improperly can alter vehicle handling and may cause loss of control or brake instability. Always follow these precautions when hauling cargo.

- Read and understand the load distribution warnings listed on the vehicle warning labels.
- Never exceed the stated load capacity for this vehicle.
- REDUCE SPEED AND ALLOW GREATER DISTANCES FOR BRAKING WHEN HAULING CARGO OR TOWING. Use extreme caution when applying brakes. Avoid situations that require backing downhill.
- When operating over rough or hilly terrain, reduce speed, cargo and towed load to maintain stable driving conditions.
- CARRY LOADS AS LOW ON THE RACK AS POSSIBLE. Carrying a load high on the rack raises the center of gravity of the vehicle and creates a less stable operating condition. Reduce load weight when cargo is high. Secure off-centered loads that cannot be centered and operate with extra caution.
- CARRYING A LOAD on only one rack may cause the vehicle to overturn. Split the load between the front rack and rear rack, with 1/3 in the front and 2/3 in the back. Do not exceed load capacities. See specifications beginning on page 127.
- SECURE ALL LOADS BEFORE OPERATING. Unsecured loads can create unstable operating conditions, which could result in loss of control of the vehicle.
- OPERATE ONLY WITH STABLE AND SAFELY ARRANGED LOADS. When handling off-centered loads that cannot be centered, securely fasten the load and operate with extra caution. Always attach the tow load to the hitch point designated for your vehicle.
- USE EXTREME CAUTION when operating with loads that extend over the rack sides. Stability and maneuverability may be adversely affected, causing the vehicle to overturn.
- NEVER exceed 80 km/h when rear cargo loads are above 34 kg and/or front cargo loads are above 17 kg.
- TOWING is approved OFF-ROAD ONLY. Operating this vehicle with a trailer on public roads is prohibited.
- TOWING SPEED should never exceed 16 km/h. Never exceed 8 km/h when towing loads in rough terrain, while cornering, or while ascending or descending hills.

## Hauling Cargo



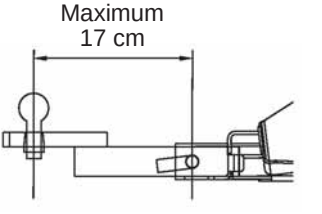

## Towing Loads

Towing is approved OFF-ROAD ONLY. Operating this vehicle with a trailer on public roads is prohibited. Do not exceed the maximum capacities when towing. Do not tow any trailer on a grade steeper than 15°.

Unbraked Trailer Towing Capacity is 1786 lbs. (810 kg) based on EU Directive 76/432/EC.

⚠

Using an improper hitch or exceeding the maximum tongue weight capacity can result in serious damage to the vehicle and will void your warranty. Never install a hitch longer than 17 cm. Never install automotive accessories on your POLARIS vehicle. Always install POLARIS-approved (or equivalent) accessories designed for use on the vehicle.



# WINCH GUIDE

These safety warnings and instructions apply if your vehicle came equipped with a winch or if you choose to add an accessory winch to your vehicle.

**⚠ WARNING**

Improper winch use can result in SEVERE INJURY or DEATH. Always follow all winch instructions and warnings in this manual.

Your winch may have a cable made of either wire rope or specially designed synthetic rope. The term “winch cable” will be used for either unless noted otherwise.

## Winch Safety Precautions

1. Read all sections of this manual.
2. Never use alcohol or drugs before or while operating the winch.
3. Never allow children under 16 years of age to operate the winch.
4. Always wear eye protection and heavy gloves when operating the winch.
5. Always keep body, hair, clothing and jewelry clear of the winch cable, fairlead and hook when operating winch.
6. Never attempt to “jerk” a load attached to the winch with a moving vehicle. See the *Shock Loading* section on page 67.
7. Always keep the area around the vehicle, winch, winch cable and load clear of people (especially children) and distractions while operating the winch.
8. Always turn the vehicle ignition power OFF when it and the winch are not being used.
9. Always be sure that at least five (5) full turns of winch cable are wrapped around the winch drum at all times. The friction provided by this wrapped cable allows the drum to pull on the winch cable and move the load.
10. Always apply your vehicle’s park brake and/or park mechanism to hold the vehicle in place during winching. Use wheel chocks if needed.

## Winch Safety Precautions

11. Always align the vehicle and winch with the load directly in front of the vehicle as much as possible. Avoid winching with the winch cable at an angle to the winching vehicle's centerline whenever possible.
12. If winching at an angle is unavoidable, follow these precautions:
    A. Look at the winch drum occasionally. Never let the winch cable "stack" or accumulate at one end of the winch drum. Too much winch cable at one end of the winch drum can damage the winch and the winch cable.
    B. If stacking occurs, stop winching. Follow step 15 on page 65 to feed and rewind the cable evenly before continuing the winch operation.
13. Never winch up or down at sharp angles. This can destabilize the winching vehicle and possibly cause it to move without warning.
14. Never attempt to winch loads that weigh more than the winch's rated capacity.
15. The winch motor may become hot during winch use. If you winch for more than 45 seconds, or if the winch stalls during operation, stop winching and permit the winch to cool down for 10 minutes before using it again.
16. Never touch, push, pull or straddle the winch cable while winching a load.
17. Never let the winch cable run through your hands, even if wearing heavy gloves.
18. Never release the clutch on the winch when the winch cable is under load.
19. Never use the winch for lifting or transporting people.

# WINCH GUIDE
## Winch Safety Precautions

20. Never use the winch to hoist or suspend a vertical load.
21. Never immerse or submerse your winch in water. Take your winch to your dealer for service if this occurs.
22. Always inspect your winch and winch cable before each use.
23. Never winch the hook fully into the winch. This can cause damage to winch components.
24. Unplug the remote control from the vehicle when the winch is not in use to prevent inadvertent activation and use by unauthorized persons.
25. Never grease or oil the winch cable. This will cause the winch cable to collect debris that will shorten the life of the cable.

## Winch Operation

Read the *Winch Safety Precautions* in the preceding pages before using your winch.

**Tip:** Consider practicing the operation and use of your winch before you actually need to use it in the field.

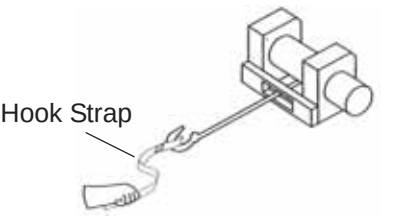
**⚠WARNING**

Improper winch use can result in SEVERE INJURY or DEATH. Always follow all winch instructions and warnings in this manual.

Each winching situation is unique.

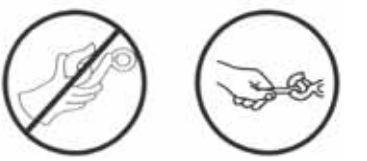
- Take your time to think through the winching you are about to do.
- Proceed slowly and deliberately.
- Never hurry or rush during winching.
- Always pay attention to your surroundings.
- You may need to change your winching strategy if it is not working.
- Always remember that your winch is very powerful.
- There are simply some situations that you and your winch will not be able to deal with. Do not be afraid to ask others to help when this happens.

1. Always inspect the vehicle, winch, winch cable and winch controls for any signs of damage or parts in need of repair or replacement before each use. *Pay particular attention to the first 3 feet (1 meter) of winch cable if the winch is being used (or has been used) for lifting an accessory plow assembly.* Promptly replace any worn or damaged cable.
2. Never operate a winch or a vehicle in need of repair or service.
3. Always apply your vehicle's park brake and/or park mechanism to hold the vehicle in place during winching. Use wheel chocks if needed.



# WINCH GUIDE
## Winch Operation

4. Always use the hook strap when handling the hook.




**WARNING!** Never put your fingers into the hook. This could lead to SEVERE INJURY.

A. Attach the hook itself onto the load or use a tow strap or chain to secure the load to the winch cable.

**Tip:** A “tow strap” is NOT intended to stretch. A “recovery strap” is designed to stretch.

**WARNING!** Never use a recovery strap when winching due to the excessive energy that can be released if the winch cable breaks. This can result in SEVERE INJURY or DEATH. See the *Shock Loading* section on page 67.

B. Never hook the winch cable back onto itself. This will damage the winch cable and may result in winch cable failure.

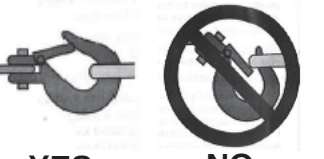
**WARNING!** Replace the winch cable at the first sign of damage to prevent SEVERE INJURY or DEATH in the event of failure. For your safety, always replace POLARIS winch parts (including the cable) with genuine POLARIS replacement parts available at your authorized POLARIS dealer.

C. If possible, keep the winch cable aligned with the centerline of the winching vehicle. This will help the spooling of the winch cable and reduce the load on the fairlead.

D. If freeing a stuck vehicle by attaching to a tree, use an item such as a tow strap to avoid damaging the tree during winch operation. Sharp cables and chains can damage and even kill trees. Please remember to TreadLightly® (treadlightly.org).

E. Before operating the winch, be sure that the safety latch on the winch cable hook is fully seated when the load is attached.

F. Never operate your winch with a damaged hook or latch. Always replace damaged parts before using the winch.



## Winch Operation

5. Never remove the hook strap from the hook.
6. Release the winch clutch and pull out the winch cable.
7. Pulling out as much cable as possible maximizes the winch's pulling capacity. Always be sure that at least five (5) full turns of winch cable are wrapped around the winch drum at all times. The friction provided by this wrapped cable allows the drum to pull on the winch cable and move the load.
8. Read and adhere to the following information for winch damping to ensure safe winch use.
   A. In order to absorb energy that could be released by a winch cable failure, always place a "damper" on the winch cable. A damper can be a heavy jacket, tarp, or other soft, dense object. A damper can absorb much of the energy released if a winch cable breaks when winching. Even a tree limb can help as a damper if no other items are available to you.
   B. Lay the damper on top of the mid-point of the winch cable length that is spooled out.
   C. On a long pull, it may be necessary to stop winching so that the damper can be repositioned to the new mid-point of the winch cable. Always release the tension on the winch cable before repositioning the damper.
   D. Avoid being directly in line with the winch cable whenever possible. Also, never permit others to stand near or in line with the winch cable during winch operation.
9. Never hook the winch cable back onto itself. This will damage the winch cable and may result in winch cable failure.
10. Never use straps, chains or other rigging items that are damaged or worn.

# WINCH GUIDE
## Winch Operation

11. The ONLY time a winch-equipped vehicle should be moving when using the winch is when that vehicle itself is stuck. The winch-equipped vehicle should NEVER be in motion to "shock" load the winch cable in an attempt to move a second stuck vehicle. See the *Shock Loading* section on page 67. For your safety, always follow these guidelines when winching a vehicle free:
    A. Release the winch clutch and spool out the necessary length of winch cable.
    B. Align the winch cable as close as possible to the winching vehicle's centerline.
    C. Attach the winch cable hook to the anchor point or the stuck vehicle's frame following instructions in this manual.
    D. Re-engage the clutch on the winch.
    E. Slowly winch in the slack in the winch cable.
    F. Select the proper vehicle gear to propel the stuck vehicle in the direction of winching.
    G. Shift to the lowest gear available on the stuck vehicle.
    H. Slowly and carefully apply vehicle throttle and winch together to free the vehicle.
    I. Stop winching as soon as the stuck vehicle is able to propel itself without the help of the winch.
    J. Detach the winch cable hook.
    K. Rewind the winch cable evenly back onto the winch drum following the instructions in this manual.
12. Never attempt to winch another stuck vehicle by attaching the winch cable to a suspension component, brush guard, bumper or cargo rack. Vehicle damage may result. Instead, attach the winch to a strong portion of the vehicle frame or hitch.

## Winch Operation

13. Extensive winching will run down the battery on the winching vehicle. Let the winching vehicle's engine run while operating the winch to prevent the battery from running low if winching for long periods.
14. The winch motor may become hot during winch use. If you winch for more than 45 seconds, or if the winch stalls during operation, stop winching and permit the winch to cool down for 10 minutes before using it again.
15. After winching is complete, especially if winching at an angle, it may be necessary to re-distribute the winch cable across the winch drum. You will need an assistant to perform this task.
    A. Release the clutch on the winch.
    B. Feed out the winch cable that is unevenly bunched up in one area.
    C. Re-engage the winch clutch.
    D. Have an assistant pull the winch cable tightly with about 100 lbs. (45 kg) of tension using the hook strap.
    E. Slowly winch the cable in while your assistant moves the end of the winch cable back and forth horizontally to evenly distribute the winch cable on the drum.
    F. Doing this reduces the chances of the winch cable "wedging" itself between lower layers of winch cable.

# WINCH GUIDE
## Winch Cable Care

For your safety, always replace POLARIS winch parts (including the cable) with genuine POLARIS replacement parts available at your authorized POLARIS dealer.

**WARNING!** Use of worn or damaged cable could lead to sudden failure and SEVERE INJURY.

1. Always inspect your winch before each use. Inspect for worn or loose parts including mounting hardware. Never use the winch if any part needs repair or replacement.
2. Always inspect your winch cable before each use. Inspect for worn or kinked winch cable.
   A. A kinked winch cable made of wire rope is shown at right. Even after being "straightened out," this cable has already been permanently and severely damaged. Promptly discontinue use of a winch cable in this condition.

   B. A kinked winch cable made of wire rope that has been "straightened out" is shown at right. Even though it may look usable, the cable has been permanently and severely damaged. It can no longer transmit the load that it could prior to kinking. Promptly discontinue use of a winch cable in this condition.

   C. A winch cable made of synthetic rope should be inspected for signs of fraying. Replace the cable if fraying is observed (shown at right). Promptly discontinue use of a winch cable in this condition.

   D. Also replace the winch cable if there are fused or melted fibers. Such an area of the synthetic rope will be stiff and appear smooth or glazed. Promptly discontinue use of a winch cable in this condition.

## Shock Loading

**WARNING!** Your winch cable is very strong but it is NOT designed for dynamic, or "shock" loading. Shock loading may tension a winch cable beyond its strength and cause the cable to break. The end of a broken winch cable under such high loading can cause SEVERE INJURY or DEATH to you and other bystanders.

*Winch cables are designed to NOT absorb energy. This is true of both wire-rope and synthetic-rope winch cables.*

1. Never attempt to "jerk" a load with the winch. For example, never take up slack in the winch cable by moving the winching vehicle in an attempt to move an object. This is a dangerous practice. It generates high winch cable loads that may exceed the strength of the cable. Even a slowly moving vehicle can create large shock loads in a winch cable.

**WARNING!** SEVERE INJURY or DEATH can result from a broken winch cable.

2. Never quickly turn the winch ON and OFF repeatedly ("jogging"). This puts extra load on the winch, winch cable, and generates excessive heat from the motor. This is a form of shock loading.
3. Never tow a vehicle or other object with your winch. Towing an object with a winch produces shock loading of the cable even when towing at slow speeds. Towing from a winch also positions the towing force high on the vehicle. This can cause instability of the vehicle and possibly lead to an accident.

# WINCH GUIDE
## Shock Loading

4. Never use recovery straps with your winch. Recovery straps are designed to stretch and can store energy. This stored energy in the recovery strap is released if a winch cable fails making the event even more hazardous. Similarly, never use elastic “bungie” cords for winching.
5. Never use the winch to tie down a vehicle to a trailer or other transportation vehicle. This type of use also causes shock loading that can cause damage to the winch, winch cable, or vehicles used.

**Your winch cable is designed and tested to withstand the loads produced by the winch motor when operated from a stationary vehicle. Always remember that the winch and winch cable are NOT designed for shock loading.**

## Winch Maintenance and Service Safety

**WARNING!** Improper or lack of winch maintenance and service could lead to SEVERE INJURY or DEATH. Always follow all winch instructions and warnings in this manual.

1. Always inspect your winch before each use. Inspect for worn or kinked winch cable. Also inspect for worn or loose parts including mounting hardware.
2. Permit your winch motor to cool down prior to servicing your winch.
3. Never work on your winch without first disconnecting the battery connections to prevent accidental activation of the winch
4. For your safety, always replace POLARIS winch parts (including the cable) with genuine POLARIS replacement parts available at your authorized POLARIS dealer.
5. Some winch models use wire rope as the winch cable. Other winches use a specially designed synthetic rope as the winch cable.
6. Never replace a synthetic-rope winch cable with a consumer-grade polymer rope such as can be purchased in a hardware store. Although they may look similar, they are NOT alike. A polymer rope not designed for winch use will stretch and store excessive energy when winching.

**WARNING!** Failure of a stretched rope under winching conditions will release all of the stored energy. This will increase the chances of SEVERE INJURY or DEATH.

# EMISSION CONTROL SYSTEMS

## Noise Emission Control System

Do not modify the engine, intake or exhaust components, as doing so may affect compliance with governmental noise level requirements.

## Spark Arrester

Your POLARIS vehicle has a spark arrester that was designed for on-road and off-road operation. It is required that this spark arrester remain installed and functional when the vehicle is operated.

## Exhaust Emission Control System

Exhaust emissions are controlled by engine design. An electronic fuel injection (EFI) system controls fuel delivery. The engine and EFI components are set at the factory for optimal performance and are not adjustable.

## Electromagnetic Interference

This spark ignition system complies with Canadian ICES-002.

This vehicle complies with the EMC requirements of European directives 97/24/EC and 2004/108/EC.

Non-ionizing Radiation: This vehicle emits some electromagnetic energy. People with active or non-active implantable medical devices (such as heart monitoring or controlling devices) should review the limitations of their device and the applicable electromagnetic standards and directives that apply to this vehicle.

## Periodic Maintenance Chart

Careful periodic maintenance will help keep your vehicle in safe, reliable condition. Inspect, clean, lubricate, adjust and replace parts as necessary. When inspection reveals the need for replacement parts, use genuine POLARIS parts available from your POLARIS dealer. Record maintenance and service in the Maintenance Log beginning on page 133.

Service and adjustments are important for proper vehicle operation. If you're not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

Maintenance intervals in the following chart are based upon average riding conditions and an average vehicle speed of approximately 10 miles per hour. Vehicles subjected to severe use must be inspected and serviced more frequently.

### Severe Use Definition

- Frequent immersion in mud, water or sand
- Racing or race-style high RPM use
- Prolonged low speed, heavy load operation
- Extended idle
- Short trip cold weather operation

Pay special attention to the oil level. A rise in oil level during cold weather can indicate contaminants collecting in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level, and if it continues to rise, discontinue use and determine the cause or see your dealer.

# MAINTENANCE
## Periodic Maintenance Chart
### Maintenance Chart Key

| Symbol | Description |
|---|---|
| ► | Perform these operations more often for vehicles subjected to severe use. |
| D | Have an authorized POLARIS dealer perform these services. |

**WARNING!** Improperly performing the procedures marked with a **"D"** could result in component failure and lead to serious injury or death. Have an authorized POLARIS dealer perform these services.

*Perform all services at whichever maintenance interval is reached first.*

| | Item | Maintenance Interval (whichever comes first) | | | Remarks |
|---|---|---|---|---|---|
| | | Hours | Calendar | Miles (Km) | |
| | Steering | - | Pre-Ride | - | Make adjustments as need ed. See Pre-Ride Checklist on page 40. |
| | Front suspension | - | | - | |
| | Rear suspension | - | | - | |
| | Tires | - | | - | |
| | Brake fluid level | - | | - | |
| | Brake lever travel | - | | - | |
| | Brake system | - | | - | |
| | Wheels/fasteners | - | | - | |
| | Frame fasteners | - | | - | |
| | Engine oil level | - | | - | |
| | Winch (if equipped) | - | | - | See pages 58-69 |
| ► | Air filter, pre-filter | - | Daily | - | Inspect; clean often; replace as needed |
| ► | Air box sediment tube | - | Daily | - | Drain deposits when visible |
| | Coolant | - | Daily | - | Check level daily, change coolant every 2 years |
| | Power steering unit (if equipped) | - | Daily | - | Inspect daily; clean often |
| | Headlight/taillight/ worklight | - | Daily | - | Check operation; apply dielectric grease if replacing lamps |

► Perform these procedures more often for vehicles subjected to severe use.
**D** Have an authorized POLARIS dealer perform these services.

# Periodic Maintenance Chart

| Item | | Maintenance Interval (whichever comes first) | | | Remarks |
|---|---|---|---|---|---|
| | | Hours | Calendar | Miles (Km) | |
| ► | Air filter, main element | - | Weekly | - | Inspect; replace as needed |
| | Recoil housing | - | Weekly | - | Drain water as needed, check often if operating in wet conditions |
| ► D | Brake pad wear | 10 H | Monthly | 100 (160) | Inspect periodically |
| | Battery | 20 H | Monthly | 200 (320) | Check terminals; clean; test |
| ► | Engine breather valve (if equipped) | 25 H | Monthly | 250 (400) | Inspect; clean if needed |
| ► | Engine oil change | 25 H | 1 M | 250 (400) | Break-in oil and filter change |
| ► | Demand drive fluid | 25 H | 1 M | 250 (400) | Break-in oil level check |
| ► | Rear gearcase oil | 25 H | 1 M | 250 (400) | Break-in oil level check |
| ► | Transmission oil | 25 H | 1 M | 250 (400) | Break-in oil level check |
| ► | General lubrication | 50 H | 3 M | 500 (800) | Lubricate all fittings, pivots, cables, etc. |
| D | Throttle Cable/ Release Switch | 50 H | 6 M | 500 (800) | Inspect; adjust; lubricate; replace if necessary |
| | Throttle Body Intake Duct | 50 H | 6 M | 500 (800) | Inspect duct for proper sealing/air leaks |
| | Drive belt | 50 H | 6 M | 500 (800) | Inspect; adjust; replace as needed |
| | Cooling system | 50 H | 6 M | 1000 (1600) | Inspect coolant strength seasonally; pressure test system yearly |
| ► | Engine oil change | 100 H | 6 M | 1000 (1600) | Change the oil and filter |
| ► | Oil lines and fasteners | 100 H | 6 M | 1000 (1600) | Inspect for leaks and loose fittings |

# MAINTENANCE
## Periodic Maintenance Chart

| | Item | Maintenance Interval (whichever comes first) | | | Remarks |
|---|---|---|---|---|---|
| | | Hours | Calendar | Miles (Km) | |
| ► | Demand drive fluid (normal use) | 100 H | 12 M | 1000 (1600) | Change fluid |
| ► | Rear gearcase oil | 100 H | 12 M | 1000 (1600) | Change fluid |
| ► | Transmission oil | 100 H | 12 M | 1000 (1600) | Change fluid |
| **D** | Valve clearance | 100 H | 12 M | 1000 (1600) | Inspect; adjust |
| **D** | Fuel system/filter | 100 H | 12 M | 1000 (1600) | Check for leaks at tank cap, lines, filter, pump; replace lines every two years |
| ► | Radiator (if applicable) | 100 H | 12 M | 1000 (1600) | Inspect; clean external surfaces |
| ► | Cooling hoses (if applicable) | 100 H | 12 M | 1000 (1600) | Inspect for leaks |
| ► | Engine mounts | 100 H | 12 M | 1000 (1600) | Inspect |
| | Exhaust muffler/ pipe | 100 H | 12 M | 1000 (1600) | Inspect |
| **D** | Spark plug | 100 H | 12 M | 1000 (1600) | Inspect; replace as needed |
| ► | Wiring | 100 H | 12 M | 1000 (1600) | Inspect for wear, routing, security; apply dielectric grease to connectors subjected to water, mud, etc. |
| **D** | Clutches (drive and driven) | 100 H | 12 M | 1000 (1600) | Inspect; clean; replace worn parts |
| **D** | Front wheel bearings | 100 H | 12 M | 1000 (1600) | Inspect; replace as needed |
| **D** | Brake fluid | 200 H | 24 M | 2000 (3200) | Change every two years |
| | Spark arrester | 300 H | 36 M | 3000 (4800) | Clean out |
| | Idle speed | - | | | Adjust as needed |
| **D** | Toe adjustment | - | | | Inspect periodically; adjust when parts are replaced |
| | Headlight aim | - | | | Adjust as needed |

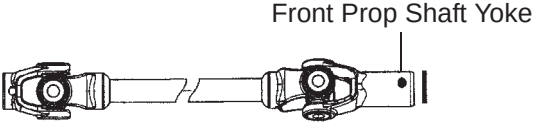
► Perform these procedures more often for vehicles subjected to severe use.
**D** Have an authorized POLARIS dealer perform these services.

## Lubrication Guide

Check and lubricate all components at the intervals outlined in the Periodic Maintenance Chart beginning on page 71. Items not listed in the chart should be lubricated at the General Lubrication interval.

The a-arms and lower control arms are lubricated at the factory, and no additional lubrication will be needed. However, if these components are subjected to severe use, grease zerks have been provided for additional lubrication at the user's discretion.

| Item | Lube | Capacity at Fluid Change | Inspection Procedure |
|---|---|---|---|
| Engine Oil | PS-4 5W-50 4-Cycle Oil | 2 qt. (1.9 l) | Maintain level in safe range on dipstick. See page 77. |
| Brake Fluid | DOT 4 Brake Fluid | --- | Maintain level between fill lines. See page 85. |
| Transmission Oil | AGL Gearcase Lubricant & Transmission Fluid | 32 oz. (948 ml) | Maintain level at bottom of fill hole threads. See page 80. |
| Demand Drive Fluid (Front Gearcase) | Demand Drive Fluid | 9 oz. (265 ml) | Maintain level at bottom of fill hole threads. See page 82. |
| Front Prop Shaft Yoke | U-Joint Grease | --- | Grease fittings (3 pumps maximum) every 500 miles, before long periods of storage, or after pressure washing or submerging. |



# MAINTENANCE
## Engine Oil
### Oil Recommendations

| Lubricant | Capacity | Drain Plug Torque |
|---|---|---|
| PS-4 5W-50 4-Cycle Oil | 2 qts. (1.9 l) | 14-17 ft. lbs. (19-23 Nm) |

Always change the oil filter whenever changing oil.

POLARIS recommends the use of POLARIS PS-4 Full Synthetic 5W-50 4-cycle oil or a similar oil for this engine. Oil may need to be changed more frequently if POLARIS oil is not used. Always use 5W-50 oil. Follow the manufacturer's recommendations for ambient temperature operation. See page 126 for the part numbers of POLARIS products.

**NOTICE:** Mixing brands or using a non-recommended oil may cause serious engine damage. Always use the recommended oil. Never substitute or mix oil brands.

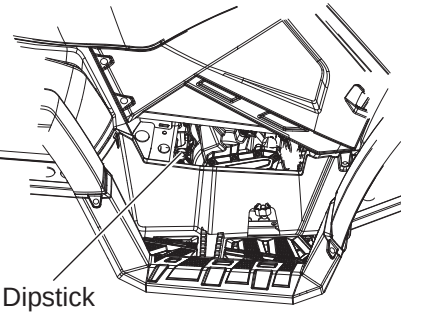
# Engine Oil

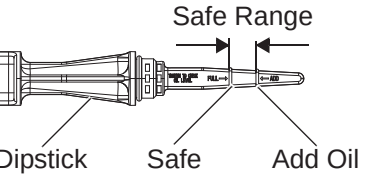
## Oil Level

Access the oil dipstick and fill tube from the right side of the ATV.

A rising oil level between checks in cool weather driving can indicate contaminants such as gas or moisture collecting in the crankcase. If the oil level is over the full/safe mark, change the oil immediately.

1. Position the vehicle on a level surface.
2. Remove the dipstick. Wipe it dry with a clean cloth.
3. Reinstall the dipstick completely.
4. Remove the dipstick and check the oil level. Maintain the oil level in the safe range. Do not overfill.



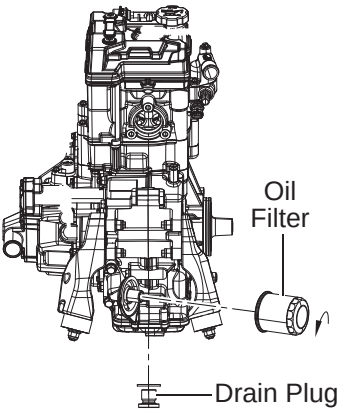



# MAINTENANCE
## Engine Oil
### Oil and Filter Change

Always change the oil and filter at the intervals outlined in the Periodic Maintenance Chart beginning on page 71. Always change the oil filter whenever changing oil.

1. Position the vehicle on a level surface.
2. Start the engine. Allow it to warm up at idle for two to three minutes.
3. Stop the engine.
4. Clean the area around the drain plug.
5. Place a drain pan under the crank case.
6. Remove the drain plug. Allow the oil to drain completely.

**CAUTION!** Hot oil can cause burns to skin. Do not allow hot oil to contact skin.




**Front View of the Engine**

7. Install a new sealing washer on the drain plug. The sealing surfaces on drain plug and crankcase should be clean and free of burrs, nicks or scratches.
8. Reinstall the drain plug. Torque to 14-18 ft. lbs. (19-24 Nm).
9. Place shop towels beneath the oil filter. Using an oil filter wrench (available from your POLARIS dealer), turn the filter counter-clockwise to remove it.
10. Using a clean dry cloth, clean the filter sealing surface on the crankcase.

## Engine Oil

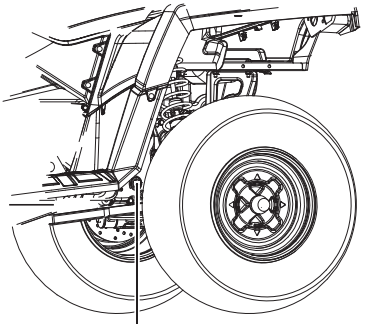
### Oil and Filter Change

11. Lubricate the o-ring on the new filter with a film of fresh engine oil. Check to make sure the o-ring is in good condition.
12. Install the new filter and rotate it clockwise by hand until the filter gasket contacts the sealing surface, then turn it an additional 1/2 turn.
13. Remove the dipstick.
14. Add two quarts (1.9 l) of recommended oil.
15. Place the transmission in PARK.
16. Start the engine. Allow it to idle for one to two minutes.
17. Stop the engine.
18. Check for leaks.
19. Check the oil level. Add oil as needed to bring the level to the upper mark on the dipstick.
20. Dispose of used filter and oil properly.

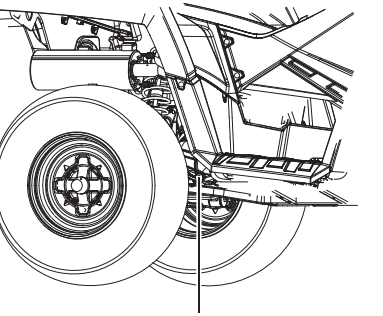
# MAINTENANCE
## Transmission Oil

Always check and change the transmission oil at the intervals outlined in the Periodic Maintenance Chart beginning on page 71. Maintain the oil level at the bottom of the fill plug hole threads. See page 126 for the part numbers of POLARIS products.

The fill plug is located on the left side of the ATV, under the rear fender, behind the wheel. The drain plug is located on the right side of the gearcase, on the right side of the ATV, behind the wheel well.



Check/Fill Plug



Drain Plug

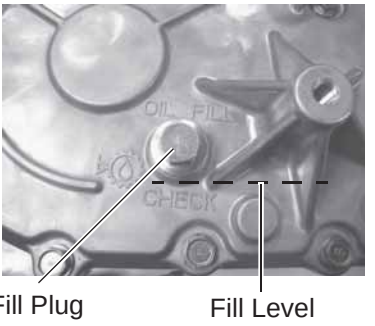
### Transmission Oil Recommendations

| Lubricant | Capacity | Fill Plug Torque | Drain Plug Torque |
|---|---|---|---|
| AGL Gearcase Lubricant & Transmission Fluid | 32 oz. (946 ml) | 20-25 ft. lbs. (27-34 Nm) | 20-25 ft. lbs. (27-34 Nm) |

# Transmission Oil

## Oil Check

1. Position the vehicle on a level surface.
2. Remove the fill plug. Check the oil level.
3. Add the recommended fluid as needed to bring the level to the bottom of the fill hole threads.
4. Reinstall the fill plug. Torque to specification.




## Oil Change

1. Remove the fill plug.
2. Place a drain pan under the gearcase. Remove the drain plug. Allow the oil to drain completely.
3. Clean and reinstall the drain plug. Torque to specification.
4. Add the proper amount of the recommended oil.
5. Reinstall the fill plug. Torque to specification.
6. Check for leaks.
7. Dispose of used oil properly.

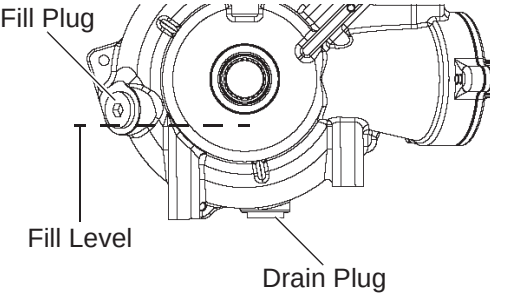
# MAINTENANCE
## Front Gearcase (Demand Drive) Fluid

Always check and change the demand drive fluid at the intervals outlined in the Periodic Maintenance Chart beginning on page 71. Maintain the fluid level at the bottom of the fill hole threads. See page 126 for the part numbers of POLARIS products.

### Fluid Recommendations

| Gearcase | Lubricant | Capacity | Fill Plug Torque | Drain Plug Torque |
|---|---|---|---|---|
| Front Gearcase | Demand Drive Fluid | 9 oz. (265 ml) | 8-10 ft. lbs. (11-14 Nm) | 11 ft. lbs. (15 Nm) |

The fill plug is located on the right side of the demand drive unit. The drain plug is located on the bottom right side of the unit.




### Fluid Check

1. Position the vehicle on a level surface. Remove the fill plug. Check the fluid level.
2. Add the recommended demand drive fluid as needed to bring the level to the bottom of the fill hole threads.
3. Reinstall the fill plug. Torque to 8-10 ft. lbs. (11-14 Nm).

### Fluid Change

1. Position the vehicle on a level surface. Remove the fill plug. Place a drain pan under the demand drive unit.
2. Remove the drain plug. Allow the fluid to drain completely.
3. Clean and reinstall the drain plug. Torque to 11 ft. lbs. (15 Nm).
4. Add the recommended fluid. See page 82 for capacity. Maintain the fluid level at the bottom of the fill hole threads.
5. Reinstall the fill plug. Torque to 8-10 ft. lbs. (11-14 Nm).
6. Check for leaks. Dispose of used fluid properly.

## Cooling System

The engine coolant level is controlled, or maintained, by the recovery system. The recovery system components are the recovery bottle, the radiator filler neck, the radiator pressure cap and the connecting hose.

As coolant operating temperature increases, the expanding (heated) excess coolant is forced out of the engine, past the pressure cap, and into the recovery bottle. As engine coolant temperature decreases the contracting (cooled) coolant is drawn back up from the bottle, past the pressure cap, and into the radiator.

Some coolant level drop on new vehicles is normal as the system is purging itself of trapped air. Check the coolant level and maintain as recommended by adding coolant to the recovery bottle.

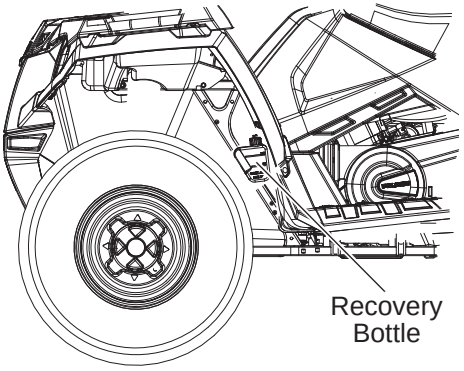
POLARIS recommends the use of POLARIS Antifreeze 60/40 premix or a 50/50 mixture of high quality aluminum compatible anti-freeze/coolant and distilled water. POLARIS Antifreeze is already premixed and ready to use. Do not dilute with water. See page 126 for the part numbers of POLARIS products.

Always follow the manufacturer's mixing recommendations for the freeze protection required in your area.

### Recovery Bottle Coolant

The recovery bottle is located on the left side of the vehicle.

1. Remove the left side panel. See page 90.
2. Maintain the coolant level between the minimum and maximum marks on the bottle (when the fluid is cool).
3. Add coolant as needed.



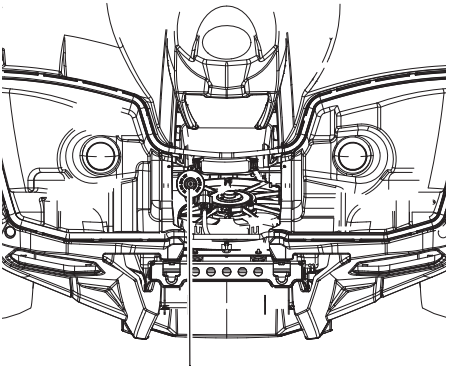
# MAINTENANCE
## Cooling System
### Radiator Coolant

To ensure that the coolant maintains its ability to protect the engine, POLARIS recommends that you drain the system completely every two years and add a fresh mixture of antifreeze and water.

Replace the coolant any time the cooling system has been drained for maintenance or repair. If the recovery bottle has run dry, check the level in the radiator. Add coolant as needed.

**CAUTION!** Escaping steam can cause burns. Never remove the pressure cap while the engine is warm or hot. Always allow the engine to cool before removing the pressure cap.

1. Open the front box cover.
2. Remove the access panel screws. Squeeze the outer edges of the panel inward to remove the panel.
3. Remove the pressure cap.
4. Using a funnel, slowly add coolant through the radiator filler neck.
5. Reinstall the pressure cap. Use of a non-standard pressure cap will not allow the recovery system to function properly. Contact your dealer for the correct replacement part.
6. Reinstall the access panel and secure the front box cover.



Radiator Cap

## Brake Fluid

Check brake fluid levels for both brake systems before each ride. Always maintain brake fluid at the recommended level. Do not overfill.

The brakes should feel firm when they're applied. Spongy or weak brakes may indicate a fluid leak or low fluid level. A low fluid level may also mean that brake pads are worn and need to be replaced. Do not operate the vehicle with spongy or weak brakes. See your dealer for service.

⚠

Operating the vehicle with a spongy brake can result in loss of braking, which could cause an accident. Never operate the vehicle with spongy-feeling brakes.

If the fluid level is low add DOT 4 brake fluid only. See page 126 for the part numbers of POLARIS products.

⚠

An over-full master cylinder may cause brake drag or brake lock-up, which could result in serious injury or death. Maintain brake fluid at the recommended level. Do not overfill.

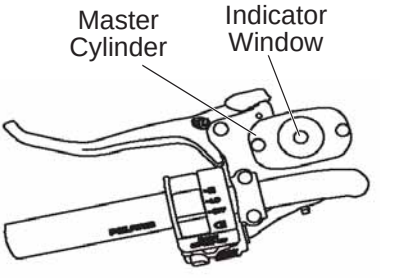
Under normal operation, the diaphragm extends into the reservoir as fluid level drops. If the fluid level is low and the diaphragm is not extended, a leak is likely and the diaphragm should be replaced. To ensure proper diaphragm operation, always fill the reservoir as needed whenever the cover is loosened or removed. Do not overfill.

⚠

Never store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. The moisture causes the boiling temperature of the brake fluid to drop, which can lead to early brake fade and the possibility of accident or severe injury. After opening a bottle of brake fluid, always discard any unused portion.

# MAINTENANCE
## Brake Fluid
### Hand Brake

The master cylinder is located on the left handlebar. Maintain the fluid level 6 mm below the top edge of the master cylinder. Do not overfill.



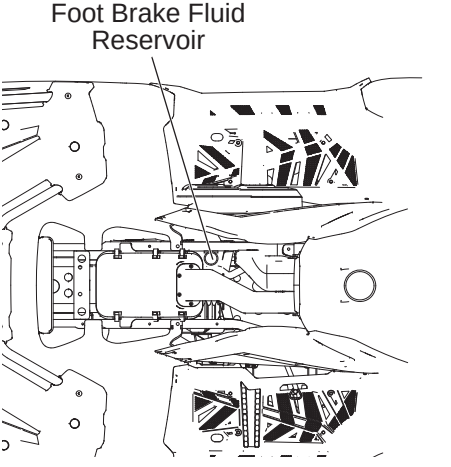

1. Position the vehicle on a level surface. Make sure the handlebars are straight.
2. View the fluid level through the indicator window (eye) on the top of the master cylinder.

**Tip:** The eye will appear dark when the fluid level is full. When fluid is low, the eye will be clear.

3. Add the recommended fluid as needed. Do not overfill.

### Foot Brake

1. Position the vehicle on a level surface.
2. Remove the seat.
3. View the fluid level in the master cylinder.
4. Maintain the fluid level between the minimum and maximum marks. Do not overfill.



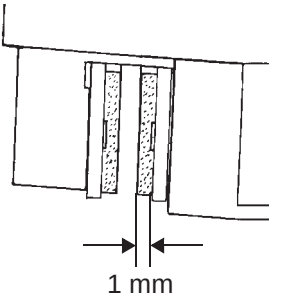
## Brakes

The front and rear brakes are hydraulic disc brakes, activated by applying the foot brake. The handlebar brake is also hydraulic. Both brake systems are self-adjusting.

### Brake Inspections

Perform the following checks to keep the brake systems in good operating condition. Check more often if brakes are used heavily under normal operation.

1. Always keep brake fluid at an adequate level. See page 85.
2. Check the brake systems regularly for fluid leaks.
3. Check the brakes for excessive travel or spongy feel.
4. Check the friction pads for wear, damage and looseness. Replace the pads when the friction material is worn to 1 mm.



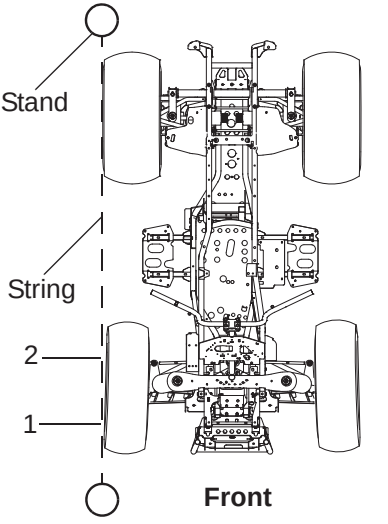

5. Check the security and surface condition of the disc. Clean any grease using a recommended brake cleaner or alcohol. Do not use spray lubricants or other petroleum-based products. If you discover any damage (cracks, excessive corrosion, warping) see your dealer for service before operating.

# MAINTENANCE
## Toe Alignment

Use the following procedure to check the toe alignment of the vehicle. The recommended toe alignment is 1/8" to 1/4" (3-6 mm) toe out.

**WARNING!** Severe injury or death can result from improper toe alignment and adjustment. Do not attempt to adjust tie rod alignment. All tie rod adjustments should be performed by an authorized POLARIS dealer.

1. Position the vehicle on a level surface.
2. Place the handlebars in a straight-ahead position.
3. Tie a length of string between two stands as shown in the illustration. Position the stands so that the string is flush with the side of the rear tire. If available, you may use a long straight-edge instead of string.
4. Measure the distance from the string to the rim at the front (1) and rear (2) of the front rim. The rear measurement should be 1/16"-1/8" (2-3 mm) more than the front measurement on each side of the vehicle to obtain the recommended 1/8" to 1/4" (3-6 mm) toe out alignment.
5. Repeat the measurement procedure on the other side of the vehicle.
6. If you discover improper alignment, see your POLARIS dealer for service.



## Power Steering Unit

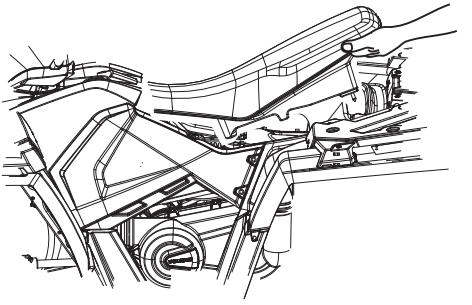
If your model is equipped with power steering, frequently clean the areas around and on the power steering unit to allow proper cooling. Clean these areas thoroughly.

## Steering Assembly

The steering assembly of the ATV should be checked periodically for loose nuts and bolts. If loose nuts and bolts are found, see your POLARIS dealer for service before operating the vehicle.

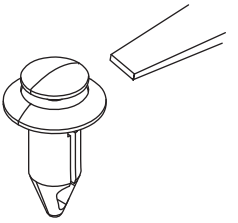
## Seat Removal

1. Grasp one side of the seat near the rear edge.
2. Pull upward abruptly to disengage the under-seat fasteners.
3. Remove the seat.

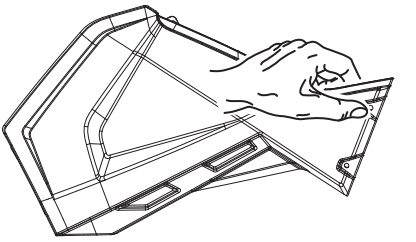


# MAINTENANCE
## Side Panel Removal

1. Remove the seat. See page 89.
2. Use a flat screwdriver to remove the plastic rivets securing the side panel.
3. Grasp the rear of the side panel near the rear cab. With a firm motion, pull the side panel outward to disengage the side panel from the grommets.
4. Pull the panel outward and rearward to remove it.



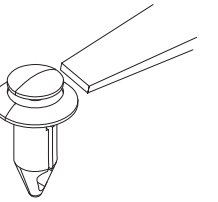
Step 2

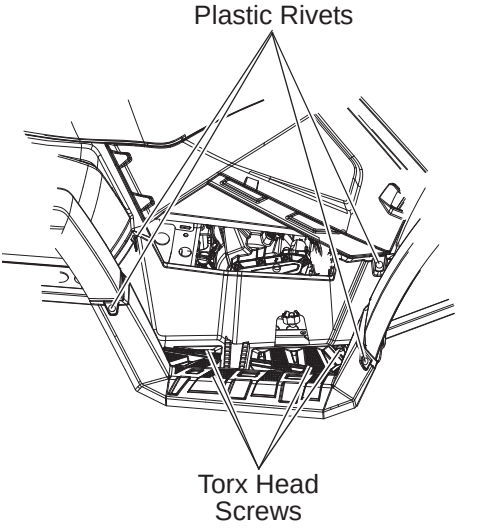


Step 3

## Footwell Removal

1. Remove the four screws on the bottom of the footwell.
2. Use a flat screwdriver to remove the plastic rivets securing the footwell to the fenders.
3. Remove the footwell.





# MAINTENANCE
## Tires

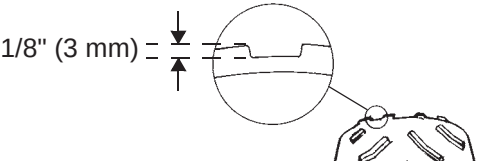
**⚠ WARNING**

Operating your ATV with worn tires, improperly inflated tires, non-standard tires or improperly installed tires will affect vehicle handling and could cause an accident resulting in serious injury or death. Always follow all tire maintenance procedures as outlined in this manual and on the labels on the vehicle. Always use original equipment size and type when replacing tires.

Refer to the specifications section beginning on page 127 for recommended tire type, size and pressure.

### Tire Tread Depth

Always replace tires when tread depth is worn to 1/8"(3 mm) or less.




### Front Wheel Hub Tightening

Front wheel bearing tightness and spindle nut retention are critical component operations. All service must be performed by your authorized POLARIS dealer.

### Wheel Removal

1. Stop the engine.
2. Place the transmission in PARK.
3. Loosen the wheel nuts slightly.

**WARNING!** Do not service axle nuts that have a cotter pin installed. See your POLARIS dealer.

4. Elevate the side of the vehicle by placing a suitable stand under the footrest frame.
5. Remove the wheel nuts.
6. Remove the wheel.

# Tires

## Wheel Installation

1. Place the transmission in PARK.
2. Place the wheel on the hub with the valve stem toward the outside and rotation arrows on the tire pointing toward forward rotation.
3. Install the wheel nuts and finger-tighten them.
4. Lower the vehicle to the ground.
5. Torque the wheel nuts to specification.

**WARNING!** Loose nuts could cause a tire to come off during operation, which could result in an accident or rollover. Always ensure that all nuts are torqued to specification.

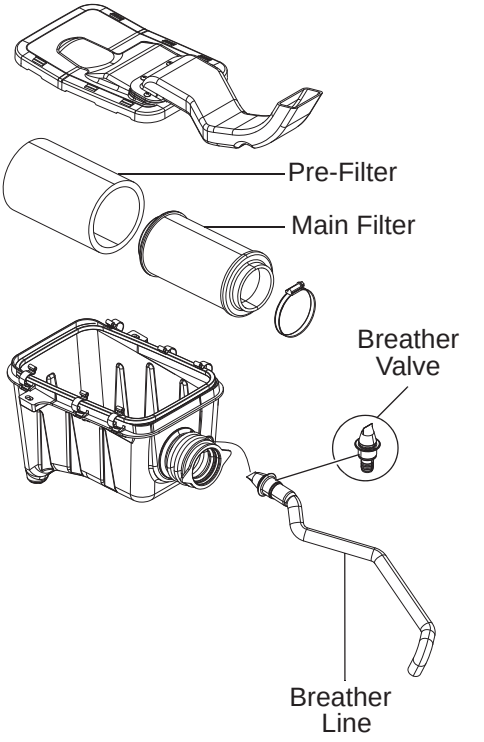
## Wheel Nut Torque Specifications

Check the wheel nut torques occasionally and when they've been loosened for maintenance service.

| Nut Type | Nut Torque |
|---|---|
| Lug Nut (Aluminum Wheels) | 30 ft. lbs. (41 Nm) PLUS 1/4 TURN |
| 2-Piece Flange Nut (Steel Wheels) | 27 ft. lbs. (37 Nm) |

# MAINTENANCE
## Air Filter

1. Remove the seat.
2. Release the air box cover clips, and remove the air box cover.
3. Loosen the clamp and remove the filter.
4. Remove the fabric type pre-filter from the main filter. Wash the pre-filter in soapy water, then rinse and let dry.
5. Reinstall the pre-filter over the main filter. Install a new main filter if needed.
6. Reinstall the filter into the air box and tighten the clamp. Do not overtighten the clamp, as filter damage could occur.
7. Reinstall the air box cover and the seat.



## Breather Valve/Hose

The breather valve is on the hose that runs between the engine and air box. See illustration on page 94.

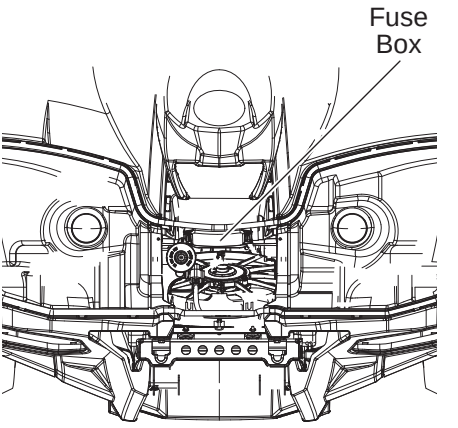
1. Remove the left side panel. See page 90.
2. Remove the hose clamps from the valve and pull the valve out of the hoses.
3. Inspect the valve for debris. Blow gently through the valve to check for clogging. Replace a damaged or clogged valve.
4. Check the hoses for cracks, deterioration, abrasion, or leaks. Replace as needed.
5. Reinstall the valve and hose clamps.

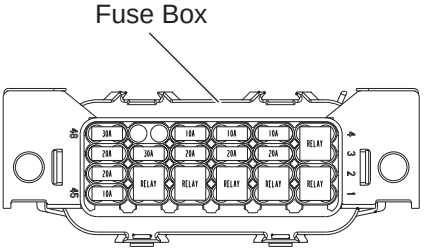
**NOTICE:** Operation of your vehicle without a breather valve can cause engine damage. Always reinstall the breather valve after removing it for service.

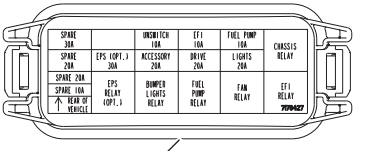
# MAINTENANCE
## Fuse Replacement

If the engine stops or will not start, or if you experience other electrical failures, a fuse may need replacement. Locate and correct any short circuits that may have caused the blown fuse, then replace the fuse. Spare fuses are provided in a compartment on the top of the access door.

1. Open the front box cover.
2. Remove the access panel. See page 84.
3. Remove fuse box cover.
4. Remove the suspect fuse from the fuse panel. If the fuse is blown, install a new fuse with the same amperage.
5. Secure the fuse box cover and access panel.
6. Secure the front box cover.



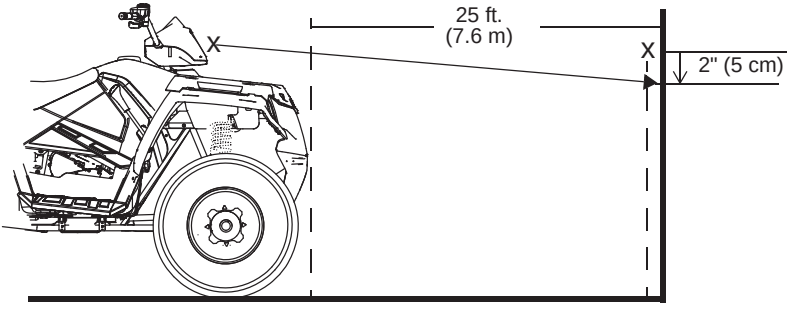




Label inside the
Fuse Box Cover

# Lights

## High Beam Adjustment

The headlight beam can be adjusted slightly upward or downward. Use the following procedure to make the adjustment.

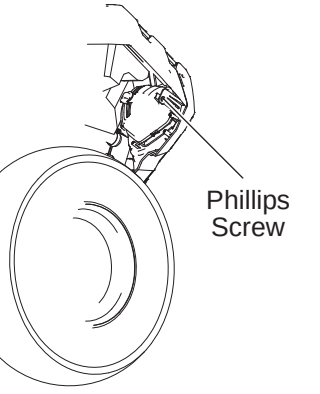



1. Position the vehicle on a level surface with the headlight approximately 25 ft. (7.6 m) from a wall. Place the transmission in PARK.
2. Measure the distance from the floor to the center of the headlight and make a mark on the wall at the same height.
3. Start the engine. Turn the headlight switch to high beam.
4. Observe the headlight aim on the wall. The most intense part of the headlight beam should be two inches (5 cm) below the mark on the wall. Include rider weight on the seat when measuring.
5. The adjustment knob is located on the right side of the headlight pod. Adjust the beam to the desired position by turning the knob either clockwise or counter-clockwise.

## Low Beam Adjustment

The low beam can be adjusted slightly upward or downward.

1. Loosen the Phillips screw located at the rear of the headlamp.
2. Tilt the headlamp upward or downward.
3. Tighten the screw.



# MAINTENANCE
## Lights

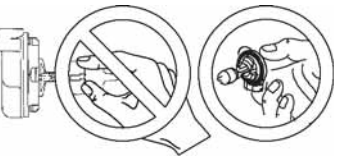
⚠

Poor lighting can result in loss of control or an accident. Lights become dirty during normal operation. Wash the headlights and taillights frequently.

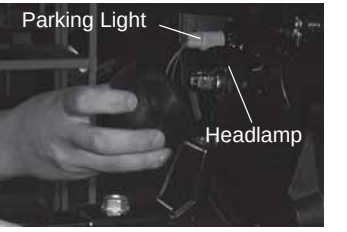
Hot components can cause serious burns to skin. Do not service the headlamps until they've cooled.

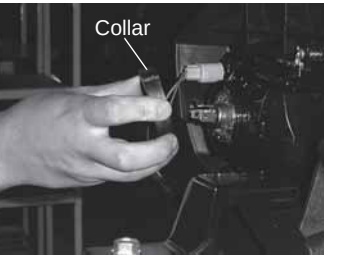
### Headlight/Parking Light Lamp Replacement

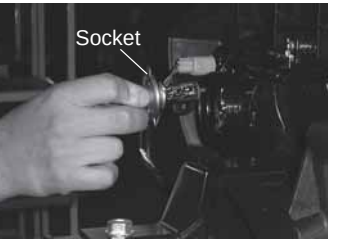
When servicing a halogen lamp, do not touch the lamp with bare fingers. Oil from your skin leaves a residue, causing a hot spot that will shorten the life of the lamp. Hold the plastic part of the lamp.



1. Place the transmission in PARK.
2. Reach under the front bumper area to locate the lighting connectors.
3. *Parking Light Lamp:* Disconnect the harness connector. Turn the socket counter-clockwise 1/8 turn and remove the lamp assembly. Pull the lamp straight out to remove it from the socket.
4. *Headlight Lamp:* Disconnect the harness connector. Remove the rubber cover from the back of the headlight. Press and turn the locking collar counter-clockwise (left headlight) or clockwise (right headlight) to release the lamp assembly.
5. Install the new lamp. Apply a small amount of dielectric grease to the lamp socket or terminals.
6. Reverse all steps to reassemble components.

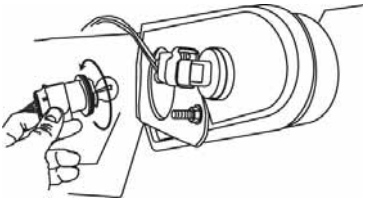


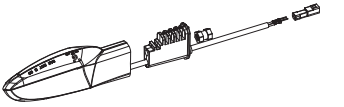
# Lights

## Taillight Lamp Replacement



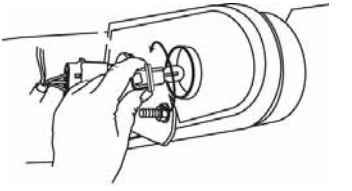
1. Place the transmission in PARK.
2. Rotate the taillight socket counter-clockwise to remove it.
3. Remove the lamp.
4. Apply dielectric grease to the socket.
5. Install the new lamp. Test the lamp for proper operation.
6. Reinstall all components in reverse order.

## Front Turn Signal Replacement



If a front turn signal light becomes inoperable, the lamps cannot be replaced. Replace the entire signal lamp assembly.

## Rear Turn Signal Lamp Replacement



1. Place the transmission in PARK.
2. Rotate the turn signal socket counter-clockwise to remove it.
3. Remove the lamp.
4. Apply dielectric grease to the socket.
5. Install the new lamp. Test the lamp for proper operation.
6. Reinstall all components in reverse order.

# MAINTENANCE

## Spark Plugs

### Spark Plug Recommendations

Refer to the specifications section beginning on page 127 for the recommended spark plug type and gap for your vehicle. Torque spark plugs to specification.

**NOTICE:** Using non-recommended spark plugs can result in serious engine damage. Always use POLARIS-recommended spark plugs.

| Plug Condition | Torque Specification |
|---|---|
| New Spark Plug | 7.5 ft. lbs. (10 Nm) |
| Previously Installed Spark Plug | 7.5 ft. lbs. (10 Nm) |

### Spark Plug Inspection

Spark plug condition is indicative of engine operation. Check the spark plug firing end condition after the engine has been warmed up and the vehicle has been driven at higher speeds. Immediately check the spark plug for correct color. See page 101.

**CAUTION!** A hot exhaust system and engine can cause burns. Wear protective gloves when removing a spark plug for inspection.

1. Rotate the spark plug cap 1/4 turn and pull it off the spark plug.
2. Using the special wrench provided in the tool pouch, rotate the spark plug counter-clockwise to remove it.
3. Reverse the procedure for spark plug installation. Torque to specification.

# Spark Plugs

## Spark Plug Inspection

### Normal Spark Plug

The normal insulator tip is gray, tan or light brown. There will be few combustion deposits. The electrodes are not burned or eroded. This indicates the proper type and heat range for the engine and the service.

The tip should not be flaky and white. A white insulator tip indicates overheating, caused by use of an improper spark plug or incorrect fuel.

### Wet Fouled Spark Plug

The wet fouled insulator tip is black. A damp oil film covers the firing end. There may be a carbon layer over the entire nose. Generally, the electrodes are not worn. General causes of fouling are excessive oil, use of non-recommended oil or incorrect throttle body adjustments.

# MAINTENANCE
## Vehicle Immersion

If your vehicle becomes immersed, major engine damage can result if the machine is not thoroughly inspected. Take the vehicle to your dealer before starting the engine. If it's impossible to take your ATV to a dealer before starting it, follow the steps outlined below.

1. Move the ATV to dry land or at the very least, to water below the footrests.
2. Check the air box. If water is present, dry the air box and replace the filter with a new filter.
3. Remove the spark plug.
4. Turn the engine over several times using the electric start.
5. Dry the spark plug. Reinstall the plug or install a new plug.
6. Attempt to start the engine. If necessary, repeat the drying procedure.
7. Take the ATV to your dealer for service as soon as possible, whether you succeed in starting it or not.
8. If water has been ingested into the PVT, follow the procedure on page 106 for drying out the PVT.

## Spark Arrester

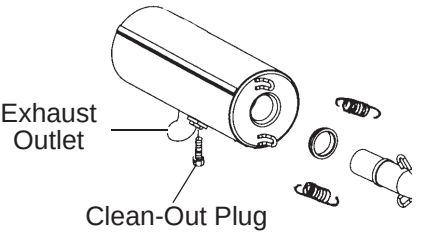
**⚠WARNING**

Failure to heed the following warnings while servicing the spark arrester could result in serious injury or death. Never run the engine in an enclosed area. Remove any combustible materials from the area. Wear eye protection and leather work gloves. Do not stand behind or in front of the vehicle while purging. Never go under the vehicle while it's inclined.

The exhaust system can get extremely hot. Do not perform service on the spark arrester while the system is hot. Allow components to cool sufficiently before proceeding.

Use the following procedure to periodically purge accumulated carbon from the exhaust pipe/muffler.

1. Remove the arrester clean-out plug from the bottom of the muffler.
2. Place the transmission in PARK.
3. Start the engine.
4. Quickly squeeze and release the throttle lever several times to purge carbon from the system.




5. If carbon comes out of the exhaust, cover or plug the exhaust outlet. Wear protective gloves.
6. Lightly tap on the exhaust pipe with a rubber mallet while repeating step 4.
7. If particles are still suspected to be in the muffler, elevate the rear of the vehicle one foot (30 cm) higher than the front. Block the wheels.
8. Repeat steps 4 to 6 until no more particles are expelled.
9. Stop the engine. Allow the arrester to cool.
10. Reinstall the arrester plug and remove the exhaust outlet cover or plug.

# MAINTENANCE
## PVT System

**⚠ WARNING**

Failure to comply with the instructions in this warning can result in severe injury or death.

Do not modify any component of the PVT system. Doing so may reduce its strength so that a failure may occur at a high speed. The PVT system has been precision balanced. Any modification will cause the system to be out of balance, creating vibration and additional loads on components.

The PVT system rotates at high speeds, creating large amounts of force on clutch components. Extensive engineering and testing has been conducted to ensure the safety of this product. However, as the owner, you have the following responsibilities to make sure this system remains safe:

- Always follow all recommended maintenance procedures. Always look for and remove debris inside and around the clutch and vent system when replacing the belt.
- See your dealer as outlined in the owner's manual.
- This PVT system is intended for use on POLARIS products only. Do not install it in any other product.
- Always make sure the PVT housing is securely in place during operation.

## PVT System

The basic operation of the POLARIS PVT system is dependent on engine speed and vehicle torque requirements. As engine speed increases, the force exerted on the movable drive sheave by the flyweights also increases. This, in turn, increases the amount of pinch applied to the drive belt. Similarly, if the engine speed decreases, the amount of centrifugal force decreases, reducing the amount of belt pinch.

On POLARIS ATVs, the approximate gear ratio difference between high and low range is 1:2.25. This difference in gearing affects the operation of the PVT, especially at speeds less than 7 MPH (11 km/h), due to the system's dependence on engine speed.

For example, when operating at a ground speed of 3 MPH (5 km/h) in low range, the engine speed would be around 3000 RPM. This is well above the engagement speed of 1200 - 1400 RPM. However, in high range at 3 MPH (5 km/h), the engine would be running at only 1500 RPM. Whenever operating this close to the engagement speed, the engine may be running at a speed too low to provide the pinch needed to prevent belt slip. Belt slip is responsible for creating the excessive heat that destroys belts, wears clutch components and causes outer clutch covers to fail.

The air temperature in the clutch cover is substantially reduced by using low range while operating at low ground speeds. Reducing the temperature inside the clutch cover greatly extends the life of the PVT components (belt, cover, etc.).

# MAINTENANCE
## PVT System
### When to Use Low Range and High Range

| Condition | Range to Use |
|---|---|
| Operating at speeds less than 7 MPH (11 km/h) | Low |
| Towing heavy loads | Low |
| Operating in rough terrain (swamps, mountains, etc.) | Low |
| Operating at speeds greater than 7 MPH (11 km/h) | High |

### PVT Drying

There may be some instances when water is accidently ingested into the PVT system. Use the following instructions to dry it out before operating.

1. Position the vehicle on a level surface.
2. Remove the drain plug. Allow the water to drain completely. Reinstall the drain plug.
3. Start the engine. Place the transmission in PARK.
4. Apply varying throttle for 10-15 seconds to expel the moisture and air-dry the belt and clutches. Do not hold the throttle wide open for more than 10 seconds.
5. Allow the engine RPM to settle to idle speed, then shift the transmission to the lowest available range.
6. Test for belt slippage. If the belt slips, repeat the process.
7. Take the vehicle to your dealer for service as soon as possible.

## Battery

**⚠WARNING**

Improperly connecting or disconnecting battery cables can result in an explosion and cause serious injury or death. When removing the battery, always disconnect the negative (black) cable first. When reinstalling the battery, always connect the negative (black) cable last.

**⚠WARNING**

Battery electrolyte is poisonous. It contains sulfuric acid. Serious burns can result from contact with skin, eyes or clothing.

Antidote:

**External**: Flush with water.

**Internal**: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call physician immediately.

**Eyes**: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flame, cigarettes, etc. away. Ventilate when charging or using in an enclosed space. Always shield eyes when working near batteries. KEEP OUT OF REACH OF CHILDREN.

Your ATV may have either a sealed battery, which requires little maintenance, or a conventional battery. A sealed battery can be identified by its flat covers on the top of the battery. A conventional battery has six filler caps on the top of the battery.

Always keep battery terminals and connections free of corrosion. If cleaning is necessary, remove corrosion with a stiff wire brush. Wash with a solution of one tablespoon baking soda and one cup water. Rinse well with tap water and dry off with clean shop towels. Coat the terminals with dielectric grease or petroleum jelly. Be careful not to allow cleaning solution or tap water into a conventional battery.

# MAINTENANCE
## Battery
### Battery Removal

1. Disconnect the battery hold-down strap.
2. Remove the battery cover (if equipped).
3. On conventional batteries, remove the battery vent tube.
4. Disconnect the black (negative) battery cable first.
5. Disconnect the red (positive) battery cable last.
6. Lift the battery out of the ATV. Be careful not to tip a conventional battery sideways, which could spill electrolyte.

**NOTICE:** If electrolyte spills, immediately wash it off with a solution of one tablespoon baking soda and one cup water to prevent damage to the vehicle.

# Battery

## Battery Installation

Using a new battery that has not been fully charged can damage the battery and result in a shorter life. It can also hinder vehicle performance. Follow the battery charging instructions on page 111 before installing the battery.

1. Ensure that the battery is fully charged.
2. Place the battery in the battery holder.
3. With conventional batteries, install the battery vent tube (sealed batteries do not have a vent tube). The vent tube must be free of obstructions and securely installed. Route the tube away from the frame and vehicle body to prevent contact with electrolyte.

**WARNING!** Battery gases could accumulate in an improperly installed vent tube and cause an explosion, resulting in serious injury or death. Always ensure that the vent tube is free of obstructions and is securely installed as recommended.

4. On conventional batteries, coat the terminals with dielectric grease or petroleum jelly.
5. Connect and tighten the red (positive) cable first.
6. Connect and tighten the black (negative) cable last.
7. Install the battery cover (if equipped).
8. Secure the battery hold-down strap.
9. Verify that cables are properly routed. Cables should be safely tucked away at the front and rear of the battery.

# MAINTENANCE

## Battery

### Battery Storage

Whenever the vehicle is not used for a period of three months or more, remove the battery from the vehicle, ensure that it's fully charged, and store it out of the sun in a cool, dry place. Check battery voltage each month during storage and recharge as needed to maintain a full charge.

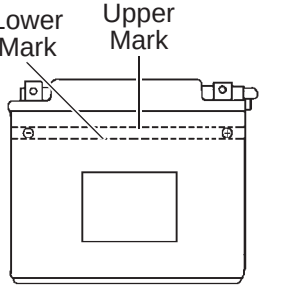
**Tip:** Power plug leads may need to be bent down so that the battery cover can be installed.

POLARIS recommends maintaining battery charge by using a POLARIS Battery Tender charger or by charging about once a month to make up for normal self-discharge. Battery Tender can be left connected during the storage period, and will automatically charge the battery if the voltage drops below a pre-determined point. See page 126 for the part numbers of POLARIS products.

### Battery Fluid (Conventional Battery)

A poorly maintained battery will deteriorate rapidly. Check the battery fluid level often. Maintain the fluid level between the upper and lower level marks.

Add only distilled water. Tap water contains minerals that are harmful to a battery.



# Battery

## Battery Charging (Conventional Battery)

1. Remove the battery from the vehicle to prevent damage from leaking or spilled electrolyte during charging. See page 108.
2. Charge the battery with a charging output no larger than 1/10 of the battery's amp/hr rating. Charge as needed to raise the specific gravity to 1.270 or greater.
3. Reinstall the battery. See page 109. Make sure the positive terminal is toward the front of the vehicle.

## Battery Charging (Sealed Battery)

The following battery charging instructions apply only to the installation of a sealed battery. Read all instructions before proceeding with the installation of this battery.

The sealed battery is already filled with electrolyte and has been sealed and *fully charged* at the factory. *Never* pry the sealing strip off or add any other fluid to this battery.

The single most important thing about maintaining a sealed battery is to keep it fully charged. Since the battery is sealed and the sealing strip cannot be removed, you must use a voltmeter or multimeter to measure DC voltage.

**WARNING!** An overheated battery may explode, causing severe injury or death. Always watch charging times carefully. Stop charging if the battery becomes very warm to the touch. Allow it to cool before resuming charging.

For a refresh charge, follow all instructions carefully.

1. Check the battery voltage with a voltmeter or multimeter. A fully charged battery will register 12.8 V or higher.
2. If the voltage is less than 12.8 volts, recharge the battery at 1.2 amps or less until battery voltage is 12.8 or greater.
3. When using an automatic charger, refer to the charger manufacturer's instructions for recharging. When using a constant current charger, use the guidelines on the next page for recharging.

# MAINTENANCE
## Battery
### Battery Charging (Sealed Battery)

Always verify battery condition before and 1-2 hours after the end of charging.

| State of Charge | Voltage | Action | Charge Time (Using constant current charger @ standard amps specified on top of battery) |
|---|---|---|---|
| 100% | 12.8-13.0 volts | None, check at 3 mos. from date of manufacture | None required |
| 75%-100% | 12.5-12.8 volts | May need slight charge, if no charge given, check in 3 months | 3-6 hours |
| 50%-75% | 12.0-12.5 volts | Needs charge | 5-11 hours |
| 25%-50% | 11.5-12.0 volts | Needs charge | At least 13 hours, verify state of charge |
| 0%-25% | 11.5 volts or less | Needs charge with desulfating charger | At least 20 hours |

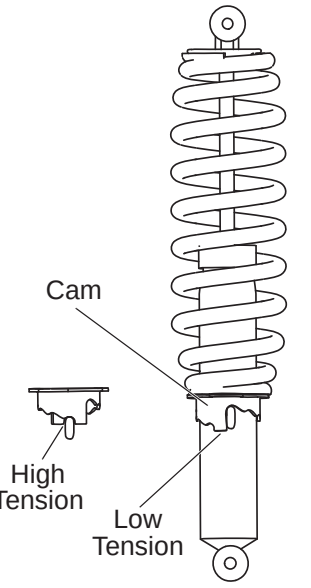
## Camber and Caster

The camber and caster are non-adjustable.

## Rear Spring

The rear shock absorber spring is adjusted by rotating the cam either clockwise or counter-clockwise to increase or decrease spring tension.

Accessory springs are available through your POLARIS dealer.

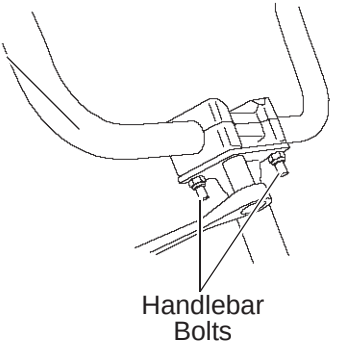



## Handlebars

The handlebars can be adjusted for rider preference.

**WARNING!** Improper adjustment of the handlebars or incorrect torquing of the adjuster block tightening bolts can cause limited steering or loosening of the handlebars, resulting in loss of control and serious injury or death. Follow the adjustment procedures exactly, or see your POLARIS dealer for service.

1. Remove the upper headlight pod.
2. Loosen the four handlebar bolts.
3. Adjust the handlebar to the desired height.
4. Be sure the handlebars do not contact the gas tank or any other part of the machine when turned fully to the left or right.
5. Torque the front two bolts to 10-12 ft. lbs. (14-17 Nm), then torque the rear two bolts. A gap of up to 1/8" (3 mm) will remain at the rear of the clamp blocks.



# MAINTENANCE

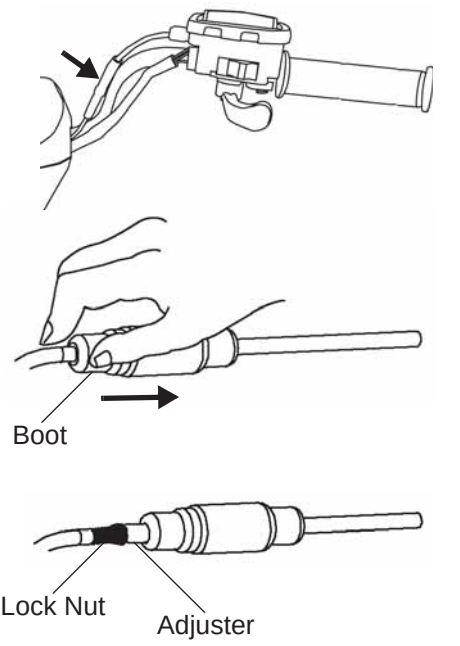
## Throttle Body/Idle RPM

Idle RPM is preset by the manufacturer. If the engine idle speed is not satisfactory, please see your POLARIS dealer for adjustment.

## Throttle Cable Freeplay

Adjust throttle cable freeplay at the handlebar.

1. Locate the throttle cable adjuster at the handlebar.
2. Squeeze the end of the rubber boot and slide it far enough to expose the end of the inline cable adjuster.
3. Loosen the adjuster lock nut.
4. Rotate the boot to turn the adjuster until 1/16" to 1/8" (1.5-3 mm) of freeplay is achieved at the thumb lever. While adjusting freeplay, be sure to flip the throttle lever back and forth.
5. Tighten the lock nut.
6. Squeeze the end of the rubber boot and slide it over the cable adjuster to its original position.



# Cleaning and Storage

## Washing the Vehicle

Keeping your POLARIS vehicle clean will not only improve its appearance but it can also extend the life of various components.

**NOTICE:** High water pressure may damage components. POLARIS recommends washing the vehicle by hand or with a garden hose, using mild soap.

Certain products, including insect repellents and chemicals, will damage plastic surfaces. Do not allow these types of products to contact the vehicle.

The best and safest way to clean your POLARIS vehicle is with a garden hose and a pail of mild soap and water.

1. Use a professional-type washing cloth, cleaning the upper body first and the lower parts last.
2. Rinse with clean water frequently.
3. Dry surfaces with a chamois to prevent water spots.

### Washing Tips

- Avoid the use of harsh cleaners, which can scratch the finish.
- Do not use a power washer to clean the vehicle.
- Do not use medium to heavy duty compounds on the finish.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish.

# MAINTENANCE
## Cleaning and Storage
### Washing the Vehicle

If a high pressure water system is used for cleaning (not recommended), exercise extreme caution. The water may damage components and could remove paint and labels. Avoid directing the water stream at the following items:

- Wheel bearings
- Radiator
- Transmission seals
- Brakes
- Cab and body panels
- Electrical components
- Switches and controls
- Labels

If an informational or graphic label becomes illegible or comes off, contact your POLARIS dealer to purchase a replacement. Replacement *safety* labels are provided by POLARIS at no charge.

Grease all zerk fittings immediately after washing. Allow the engine to run for a while to evaporate any water that may have entered the engine or exhaust system.

### Polishing the Vehicle

POLARIS recommends the use of common household aerosol furniture polish for polishing the finish on your POLARIS vehicle. Follow the instructions on the container.

#### Polishing Tips

- Avoid the use of automotive products, some of which can scratch the finish of your vehicle.
- Always use clean cloths and pads for cleaning and polishing. Old or reused cloths and pads may contain dirt particles that will scratch the finish.

# Cleaning and Storage

## Chrome Wheel Care (if equipped)

Proper maintenance will protect chrome wheels from corrosion, preserve wheel life and ensure a “like new” appearance for many years. Chrome wheels exposed to road salt (or salt in the air in coastal areas) are more susceptible to corrosion if not properly cleaned. Clean chrome wheels more often if they're exposed to salt or other corrosive elements.

1. Wash chrome wheels frequently. Use a mild detergent. Never use abrasive cleaners on plated or painted surfaces.
2. Rinse well with clear water. Soap, detergents, salt, dirt, mud and other elements can cause corrosion.
3. Polish the clean chrome wheels periodically. Use an automotive grade chrome polish.
4. Routinely and liberally apply a weather resistant wax to each polished chrome wheel. Choose a product suitable for chrome finishes. Read and follow the product labels and instructions.

### Removing Corrosion

If light rust is found on the chrome finish, use steel wool (#0000-OTT grade) to remove it. Gently rub the affected areas with the steel wool until the corrosion has been removed. Clean and polish the wheel as outlined above.

# MAINTENANCE
## Cleaning and Storage
### Storage Tips

**NOTICE:** Starting the engine during the storage period will disturb the protective film created by fogging and damage could occur. Never start the engine during the storage period.

#### Clean the Exterior

Make any necessary repairs and clean the vehicle as recommended. See page 115.

#### Stabilize the Fuel

1. Fill the fuel tank.
2. Add POLARIS Carbon Clean Fuel Treatment or POLARIS Fuel Stabilizer. Follow the instructions on the container for the recommended amount. Carbon Clean removes water from fuel systems, stabilizes fuel and removes carbon deposits from pistons, rings, valves and exhaust systems.
3. Allow the engine to run for 15-20 minutes to allow the stabilizer to disperse through the entire fuel delivery system.

#### Oil and Filter

Change the oil and filter. See page 78.

#### Air Filter/Air Box

1. Inspect and clean (or replace) the pre-cleaner and air filter. See page 94.
2. Clean the air box.
3. Drain the sediment tube.
4. Clean or replace the breather valve. See page 95.

# Cleaning and Storage

## Storage Tips

### Fluid Levels

Inspect the fluid levels. Add or change fluids as recommended in the Periodic Maintenance Chart beginning on page 71.

- Demand drive unit (front gearcase)
- Rear gearcase (if equipped)
- Transmission
- Brake fluid (change every two years and any time the fluid looks dark or contaminated)
- Coolant (test strength/fill)

### Fog the Engine

1. After stabilizing the fuel, remove the spark plugs and add 2-3 tablespoons of engine oil. To access the plug holes, use a section of clear 1/4” hose and a small plastic squeeze bottle filled with the pre-measured amount of oil.
2. Reinstall the spark plugs. Torque to specification.
3. Apply dielectric grease to the inside of the spark plug cap and reinstall the caps onto the plugs.
4. Turn the engine over several times using electric start. Oil will be forced in and around the piston rings and ring lands, coating the cylinder with a protective film of fresh oil.
5. If POLARIS fuel system additive is not used, the fuel tank, fuel lines, and injectors should be completely drained of gasoline.

# MAINTENANCE
## Cleaning and Storage
### Storage Tips
#### Inspect and Lubricate

Inspect all cables and lubricate all areas of the vehicle as recommended in the Periodic Maintenance Chart beginning on page 71.

#### Battery Storage

See pages 110-111 for storage and charging procedures.

#### Storage Area/Covers

Set the tire pressure and safely support the ATV with the tires slightly off the ground. Be sure the storage area is well ventilated. Cover the vehicle with a genuine POLARIS cover. Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

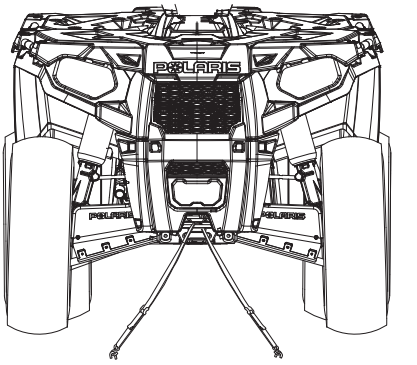
## Accessories

Auxiliary power outlets provide 12-volt power for operating accessories. Accessory outlets are available for all models. POLARIS also has a wide range of additional accessories available for your ATV. Always install accessories that are approved for ATV use. Please see your POLARIS dealer.

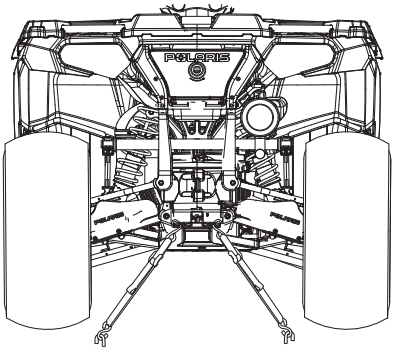
## Transporting the ATV

Follow these procedures when transporting the vehicle.

1. Stop the engine.
2. Place the transmission in PARK.
3. Secure the fuel cap, oil cap and seat.
4. Always tie the frame of the ATV to the transporting unit securely with suitable straps or rope. Do not attach tie straps to the front A-arm bolt pockets, racks or handlebars.
5. Remove the key to prevent loss during transporting.




**Front**




**Rear**

# TROUBLESHOOTING
## Drive Belt Wear/Burn

| Possible Cause | Solution |
|---|---|
| Driving onto a pickup or tall trailer in high range | Use low range during loading. |
| Starting out going up a steep incline | Use low range or turn around using the K-turn (see page 48). |
| Driving at low RPM or ground speed | Drive at a higher speed or use low range more frequently. See page 106. |
| Insufficient warm-up at low ambient temperatures | Warm the engine at least 5 minutes. With the transmission in neutral, advance the throttle to about 1/8 throttle in short bursts, 5 to 7 times. The belt will become more flexible and prevent belt burning. |
| Slow/easy clutch engagement | Use the throttle quickly and effectively. |
| Towing/pushing at low RPM/low ground speed | Use low range only. |
| Utility use/plowing | Use low range only. |
| Stuck in mud or snow | Shift the transmission to low range and carefully use fast, aggressive throttle application to engage clutch.<br>**WARNING!** Excessive throttle may cause loss of control and vehicle rollover. |
| Climbing over large objects from a stopped position | Shift the transmission to low range and carefully use fast, brief, aggressive throttle application to engage clutch.<br>**WARNING**! Excessive throttle may cause loss of control and vehicle rollover. |
| Belt slippage from water or snow ingestion into the PVT system | Dry out the PVT. See page 106. Inspect clutch seals for damage if repeated leaking occurs. |
| Clutch malfunction | See your POLARIS dealer. |
| Poor engine performance | Check for fouled plugs or foreign material in gas tank or fuel lines. See your dealer. |
| Slippage from failure to warm up belt | Always warm up the belt by operating below 30 MPH for one mile (5 miles or more when temperature is below freezing). |
| Wrong or missing belt | Install the recommended belt. |
| Improper break-in | Always break in a new belt and/or clutch. See page 39. |

## Engine Doesn't Turn Over

| Possible Cause | Solution |
|---|---|
| Tripped circuit breaker or blown fuse | Reset the breaker/Replace fuse |
| Low battery voltage | Recharge the battery to 12.8 VDC |
| Loose battery connections | Check all connections and tighten |
| Loose solenoid connections | Check all connections and tighten |

## Engine Turns Over, Fails to Start

| Possible Cause | Solution |
|---|---|
| Out of fuel | Refuel, cycle key to ON position three times for 5 seconds each, then start |
| Clogged fuel filter | Replace the filter |
| Water is present in fuel | Drain the fuel system and refuel |
| Old or non-recommended fuel | Replace with fresh recommended fuel |
| Fouled or defective spark plugs | Inspect plugs and replace if necessary |
| No spark to spark plug | Inspect plugs, verify stop switch is on |
| Water or fuel in crankcase | Immediately see your POLARIS dealer |
| Low battery voltage | Recharge the battery to 12.8 VDC |
| Mechanical failure | See your dealer |

## Engine Backfires

| Possible Cause | Solution |
|---|---|
| Weak spark from spark plug | Inspect, clean and/or replace spark plugs |
| Incorrect spark plug gap or heat range | Set gap to specs or replace plugs |
| Old or non-recommended fuel | Replace with fresh recommended fuel |
| Incorrectly installed spark plug wires | See your dealer |
| Incorrect ignition timing | See your dealer |
| Mechanical failure | See your dealer |
| Loose ignition connections | Check all connections and tighten |
| Water present in fuel | Replace with fresh recommended fuel |

# TROUBLESHOOTING

## Engine Pings or Knocks

| Possible Cause | Solution |
|---|---|
| Poor quality or low octane fuel | Replace with recommended fuel |
| Incorrect ignition timing | See your dealer |
| Incorrect spark plug gap or heat range | Set gap to specs or replace plugs |

## Engine Runs Irregularly, Stalls or Misfires

| Possible Cause | Solution |
|---|---|
| Fouled or defective spark plugs | Inspect, clean and/or replace spark plugs |
| Worn or defective spark plug wires | See your dealer |
| Incorrect spark plug gap or heat range | Set gap to specs or replace plugs |
| Loose ignition connections | Check all connections and tighten |
| Water present in fuel | Replace with new fuel |
| Low battery voltage | Recharge battery to 12.8 VDC |
| Kinked or plugged fuel tank vent line | Inspect and replace |
| Incorrect fuel | Replace with recommended fuel |
| Clogged air filter | Inspect and clean or replace |
| Reverse speed limiter malfunction | See your dealer |
| Electronic throttle control malfunction | See your dealer |
| Other mechanical failure | See your dealer |
| **Possible Lean Fuel Cause** | **Solution** |
| Low or contaminated fuel | Add or change fuel, clean the fuel system |
| Kinked or plugged fuel tank vent line | Inspect and replace |
| Low octane fuel | Replace with recommended fuel |
| Clogged fuel filter | Replace filter |
| Incorrect fuel | Replace with recommended fuel |
| **Possible Rich Fuel Cause** | **Solution** |
| Fuel is very high octane | Replace with lower octane fuel |
| Stopping/starting without adequate warm-up | Allow engine to warm up before operating and/or stopping |
| Incorrect fuel | Replace with recommended fuel |
| Clogged air filter | Inspect and clean or replace |

## Engine Stops or Loses Power

| Possible Cause | Solution |
|---|---|
| Out of fuel | Refuel, cycle key to ON position three times for 5 seconds each, then start |
| Kinked or plugged fuel vent line | Inspect and replace |
| Water is present in fuel | Replace with new fuel |
| Fouled or defective spark plugs | Inspect, clean and/or replace spark plugs |
| Worn or defective spark plug wires | See your dealer |
| Incorrect spark plug gap or heat range | Set gap to specs or replace plug |
| Loose ignition connections | Check all connections and tighten |
| Low battery voltage | Recharge the battery to 12.8 VDC |
| Incorrect fuel | Replace with fresh recommended fuel |
| Clogged air filter | Inspect and clean or replace |
| Reverse speed limiter malfunction | See your dealer |
| Electronic throttle control malfunction | See your dealer |
| Other mechanical failure | See your dealer |
| Overheated engine | Clean radiator screen and core, clean engine exterior, see your dealer |

## Engine Overheating

| Possible Cause | Solution |
|---|---|
| Debris lodged in screen | Remove and clean the screen. Pull on the top portion of the screen, then remove the lower portion. |
| Plugged Radiator | Use a garden hose to flush any debris from the radiator fins. NOTE: High pressure washers can deform the radiator fins and reduce cooling efficiency. |

# POLARIS PRODUCTS

| Part Number | Description |
|---|---|
| | **Engine Lubricant** |
| 2870791 | Fogging Oil (12 oz. Aerosol) |
| 2876244 | PS-4 Full Synthetic 5W-50 4-Cycle Oil (qt./.95 l) |
| 2876245 | PS-4 Full Synthetic 5W-50 4-Cycle Oil (gal./3.8 l) |
| 2878920 | PS-4 Extreme Duty Synthetic 10W-50 4-Cycle Oil (qt./.95 l) |
| 2878919 | PS-4 Extreme Duty Synthetic 10W-50 4-Cycle Oil (gal./3.8 l) |
| | **Gearcase / Transmission Lubricants** |
| 2878068 | AGL Full Synthetic Gearcase Lubricant & Transmission Fluid (qt./.95 l) |
| 2878069 | AGL Full Synthetic Gearcase Lubricant & Transmission Fluid (gal./3.8 l) |
| 2877922 | Demand Drive Plus Fluid (qt./.95 l) |
| 2877923 | Demand Drive Plus Fluid (gal./3.8 l) |
| 2870465 | Pump for Gallon (3.8 l) Jug |
| | **Coolant** |
| 2871323 | Polaris Antifreeze 60/40 Premix (gal./3.8 l) |
| 2871534 | Polaris Antifreeze 60/40 Premix (qt./.95 l) |
| | **Grease / Specialized Lubricants** |
| 2871312 | Grease Gun Kit, Premium All Season |
| 2871322 | All Season Grease (3 oz./89 ml cartridge) |
| 2871423 | All Season Grease (14 oz./414 ml cartridge) |
| 2871460 | Premium Starter Grease |
| 2871515 | U-Joint Grease (3 oz./89 ml cartridge) |
| 2871551 | U-Joint Grease (14 oz./414 ml cartridge) |
| 2871329 | Dielectric Grease (Nyogel™) |
| | **Additives / Miscellaneous** |
| 2871326 | Carbon Clean |
| 2870652 | Fuel Stabilizer |
| 2872189 | DOT 4 Brake Fluid |
| 2871956 | Loctite™ 565 Thread Sealant |
| 2859044 | POLARIS Battery Tender™ Charger |

# SPECIFICATIONS

| SPORTSMAN FOREST 570 EFI/EPS | |
|---|---|
| Maximum Weight Capacity | 485 lbs. (220 kg) (operator, cargo, accessories) |
| Dry Weight | 720 lbs. (327 kg) +/- 7%, based on configuration<br>731 lbs. (332 kg) (EPS) +/- 7%, based on configuration |
| Fuel Capacity | 4.5 gal. (17 l) |
| Engine Oil Capacity | 2 qts. (1.9 l) |
| Transmission Oil Capacity | 32 oz. (948 ml) |
| Demand Drive Fluid Capacity | 9 oz. (265 ml) |
| Coolant Capacity | 2.7 qts. (2.5 l) |
| Front Rack/Box Capacity | 90 lbs. (40.8 kg) |
| Rear Rack/Box Capacity | 180 lbs. (81.6 kg) |
| Receiver Hitch Tongue Capacity | 120 lbs. (54 kg) (Rear rack capacity and tongue weight not to exceed 180 lbs./81.6 kg) |
| Hitch Towing Rating | 1225 lbs. (555.7 kg) |
| Unbraked Trailer Towing Capacity* | 1786 lbs. (810 kg) |
| Overall Length/Width/Height | 83 in. (211 cm) / 48 in. (122 cm) / 48 in. (122 cm) |
| Wheelbase | 50.5 in. (128.3 cm) |
| Ground Clearance | 11 in. (28 cm) |
| Minimum Turning Radius | 65 in. (165 cm) unloaded |
| Engine | Dual overhead cam, 4 valve 4 stroke single cylinder |
| Displacement | 567 cc |
| Bore x Stroke | 99mm x 73.6mm |
| Alternator Output | 650 W @ 7000 RPM |
| Compression Ratio | 10:1 |
| Starting System | Electric |
| Fuel System | Electronic Fuel Injection |
| Ignition System | ECU |
| Spark Plug / Gap | RG6YC / 0.7-0.8 mm |
| Lubrication System | Wet Sump |
| Driving System Type | Automatic PVT (POLARIS Variable Transmission) |
| Front Suspension | MacPherson strut with 8.2" (21 cm) travel |
| Rear Suspension | Progressive rate with 9.5" (24 cm) travel |
| Shift Type | H/L/N/R/P |

* Based on EU Directive 76/432/EC

# SPECIFICATIONS

| SPORTSMAN FOREST 570 EFI/EPS | |
|---|---|
| Gear Reduction, Low | 23.91:1 |
| Gear Reduction, Reverse | 21.74:1 |
| Gear Reduction, Forward | 9.75:1 |
| Drive Ratio, Front | 3.82:1 |
| Tires/Pressure, Front | Off Road Style, Deep Tread Design<br>25x8-12 / 5 psi (34.5 kPa) |
| Tires/Pressure, Rear | Off Road Style, Deep Tread Design<br>25x11-12 / 5 psi (34.5 kPa) |
| Brakes, Front/Rear | Single-Control Hydraulic Disc |
| Brake, Auxiliary | Foot-Activated Hydraulic Disc |
| Brake, Parking | Hydraulic lock, all wheel, Mechanical Lock in Park |
| Hitch | Rear mounting for attachment of coupling devices |
| Winch | Front permanent installed winch with 2500 lbs. (1125 kg) capacity |
| Headlight | 1 Single Beam on Headlight Pod (50 watt)<br>2 Single Beam on Bumper (50 watt) |
| Taillights | 8.26 watts |
| Brake Light | 26.9 watts |
| Instrument Cluster | LCD |

## Clutching Chart

| Altitude | | Shift Weight | Drive Clutch Spring | Driven Clutch Spring | Helix* |
|---|---|---|---|---|---|
| **Meters (Feet)** | 0-1800 (0-6000) | 25-52G PN 5632409 | Black PN 7043594 | Red PN 3234451 | EBS PN 3234356 Non-EBS PN 5132344 |
| | 1800-3700 (6000-12000) | 25-48 PN 5632408 | Black PN 7043594 | Red PN 3234451 | EBS PN 3234356 Non-EBS PN 5132344 |

*EBS models require no helix/spring adjustment

## LIMITED WARRANTY

POLARIS Sales Inc., 2100 Highway 55, Medina, MN 55340 (POLARIS) gives a SIX MONTH LIMITED WARRANTY on all components of your POLARIS vehicle against defects in material or workmanship. POLARIS further warrants that the spark arrestor in this product will meet the efficiency requirements of USFS standard 5100-1C for at least 1000 hours when subjected to normal use and when maintenance and installation are in accordance with POLARIS recommendations.

This warranty covers parts and labor charges for repair or replacement of defective parts and begins on the date of purchase by the original retail purchaser. This warranty is transferable to another owner during the warranty period through a POLARIS dealer, but any such transfer will not extend the original term of the warranty. The duration of this warranty may vary by international region based upon local laws and regulations.

## REGISTRATION

At the time of sale, the Warranty Registration Form must be completed by your dealer and submitted to POLARIS within ten days of purchase. Upon receipt of this registration, POLARIS will record the registration for warranty. No verification of registration will be sent to the purchaser as the copy of the Warranty Registration Form will be your proof of warranty coverage. If you have not signed the original registration and received the customer copy, please contact your dealer immediately. NO WARRANTY COVERAGE WILL BE ALLOWED UNLESS YOUR VEHICLE IS REGISTERED WITH POLARIS. Initial dealer preparation and set-up of your vehicle is very important in ensuring trouble-free operation. Purchasing a machine in the crate or without proper dealer set-up will void your warranty coverage.

## WARRANTY COVERAGE AND EXCLUSIONS: LIMITATIONS OF WARRANTIES AND REMEDIES

This POLARIS limited warranty excludes any failures that are not caused by a defect in material or workmanship. **THIS WARRANTY DOES NOT COVER CLAIMS OF DEFECTIVE DESIGN.** This warranty also does not cover acts of God, accidental damage, normal wear and tear, abuse or improper handling. This warranty also does not cover any vehicle, component, or part that has been altered structurally, modified, neglected, improperly maintained, or used for purposes other than for which it was designed.

This warranty excludes damages or failures resulting from: improper lubrication; improper engine timing; improper fuel; surface imperfections caused by external stress, heat, cold or contamination; operator error or abuse; improper component alignment, tension, adjustment or altitude compensation; snow, water, dirt or other foreign substance ingestion/contamination; improper maintenance; modified components; use of aftermarket or unapproved components, accessories, or attachments; unauthorized repairs; or repairs made after the warranty period expires or by an unauthorized repair center.

# WARRANTY

## LIMITATIONS OF WARRANTIES AND REMEDIES

This warranty excludes damages or failures caused by abuse, accident, fire, or any other cause other than a defect in materials or workmanship and provides no coverage for consumable components, general wear items, or any parts exposed to friction surfaces, stresses, environmental conditions and/or contamination for which they were not designed or not intended, including but not limited to the following items:

- Wheels and tires
- Suspension components
- Brake components
- Seat components
- Clutches and components
- Steering components
- Batteries
- Light bulbs/Sealed beam lamps
- Filter
- Lubricants
- Bushings
- Finished and unfinished surfaces
- Carburetor/Throttle body components
- Engine components
- Drive belts
- Hydraulic components and fluids
- Circuit breakers/Fuses
- Electronic components
- Spark plugs
- Sealants
- Coolants
- Bearings

### Lubricants and Fluids

1. Mixing oil brands or using non-recommended oil may cause engine damage. We recommend the use of POLARIS engine oil.

2. Damage or failure resulting from the use of non-recommended lubricants or fluids is not covered by this warranty.

This warranty provides no coverage for personal loss or expense, including mileage, transportation costs, hotels, meals, shipping or handling fees, product pick-up or delivery, replacement rentals, loss of product use, loss of profits, or loss of vacation or personal time.

THE EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY SHALL BE, AT POLARIS' OPTION, REPAIR OR REPLACEMENT OF ANY DEFECTIVE MATERIALS, COMPONENTS, OR PRODUCTS. THE REMEDIES SET FORTH IN THIS WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE, OR OTHER TORT OR OTHERWISE. THIS EXCLUSION OF CONSEQUENTAL, INCIDENTAL, AND SPECIAL DAMAGES IS INDEPENDENT FROM AND SHALL SURVIVE ANY FINDING THAT THE EXCLUSIVE REMEDY FAILED OF ITS ESSENTIAL PURPOSE.

THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS EXCLUDED FROM THIS LIMITED WARRANTY. ALL OTHER IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY) ARE LIMITED IN DURATION TO THE ABOVE SIX MONTH WARRANTY PERIOD. POLARIS DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY. SOME STATES DO NOT PERMIT THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES OR ALLOW LIMITATIONS ON THE DURATION OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU IF INCONSISTENT WITH CONTROLLING STATE LAW.

## HOW TO OBTAIN WARRANTY SERVICE

If your vehicle requires warranty service, you must take it to a POLARIS Servicing Dealer. When requesting warranty service you must present your copy of the Warranty Registration From to the dealer. (THE COST OF TRANSPORTATION TO AND FROM THE DEALER IS YOUR RESPONSIBILITY). POLARIS suggests that you use your original selling dealer; however, you may use any POLARIS Servicing Dealer to perform warranty service.

*In the country where your product was purchased:*

Warranty or Service Bulletin repairs must be done by an authorized POLARIS dealer. If you move or are traveling within the country where your product was purchased, Warranty and Service Bulletin repairs may be requested from any authorized POLARIS dealer that sells the same line as your product.

*Outside the country where your product was purchased:*

If you are traveling temporarily outside the country where your product was purchased, you should take your product to an authorized POLARIS dealer. You must show the dealer photo identification from the country of the selling dealer's authorized location as proof of residence. Upon residence verification, the servicing dealer will be authorized to perform the warranty repair.

*If you move:*

If you move to another country, be sure to contact POLARIS Customer Assistance and the customs department of the destination country before you move. Product importation rules vary considerably from country to country. You may be required to present documentation of your move to POLARIS in order to continue your warranty coverage. You may also be required to obtain documentation from POLARIS in order to register your product in your new country. You should warranty register your product at a local POLARIS dealer in your new country immediately after you move to continue your warranty coverage and to ensure that you receive information and notices regarding your vehicle.

*If you purchase from a private party:*

If you purchase a POLARIS product from a private party, to be kept and used outside of the country in which the product was originally purchased, all warranty coverage will be denied. You must nonetheless register your product under your name and address with a local POLARIS dealer in your country to ensure that you receive safety information and notices regarding your product.

# WARRANTY

## EXPORTED PRODUCTS

EXCEPT WHERE SPECIFICALLY REQUIRED BY LAW, THERE IS NO WARRANTY OR SERVICE BULLETIN COVERAGE ON THIS PRODUCT IF IT IS SOLD OUTSIDE THE COUNTRY OF THE SELLING DEALER'S AUTHORIZED LOCATION. This policy does not apply to products that have received authorization for export from POLARIS. Dealers may not give authorization for export. You should consult an authorized dealer to determine this product's warranty or service coverage if you have any questions. This policy does not apply to products registered to government officials or military personnel on assignment outside the country of the selling dealer's authorized location. This policy does not apply to Safety Bulletins.

## NOTICE

If your product is registered outside of the country where it was purchased and you have not followed the procedure set above, your product will no longer be eligible for warranty or service bulletin coverage of any kind, other than *safety* bulletins. Products registered to Government officials or military personnel on assignment outside of the country where the product was purchased will continue to be covered by the Limited Warranty.

Please work with your dealer to resolve any warranty issues. Should your dealer require any additional assistance, they will contact the appropriate person at POLARIS.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or in different countries. If any of the above terms are void because of federal, state, local law, all other warranty terms will remain in effect.

***For questions call POLARIS Customer Assistance:***

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French: 1-800-268-6334

# MAINTENANCE LOG

Present this section of your manual to your dealer each time your vehicle is serviced. This will provide you and future owners with an accurate log of maintenance and services performed.

| DATE | MILES (KM) OR HOURS | TECHNICIAN | SERVICE PERFORMED / COMMENTS |
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# MAINTENANCE LOG

| DATE | MILES (KM) OR HOURS | TECHNICIAN | SERVICE PERFORMED / COMMENTS |
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| | | | |
| | | | |

# INDEX


## 0-9

4X4 Switch . . . . . 22, 27

## A

Accessories . . . . . 120
Air Filter . . . . . 94
All Wheel Drive System . . . . . 27

## B

**Battery . . . . . 107-112**
Charging (Conventional) . . . . . 111
Charging (Sealed) . . . . . 111-112
Fluid (Conventional) . . . . . 110
Installation . . . . . 109
Removal . . . . . 108
Storage . . . . . 110
Belt Life . . . . . 26
Boots . . . . . 9
Brake Fluid . . . . . 85-86
Brake Inspections . . . . . 87
Brake, Foot . . . . . 24
Brake, Hand . . . . . 24
Brake, Parking . . . . . 25
Brakes . . . . . 87
Break-In Period . . . . . 38-39
Breather Hose . . . . . 95
Breather Valve . . . . . 95

## C

Camber Adjustment . . . . . 113
Cargo . . . . . 56-57
Caster Adjustment . . . . . 113
Check Engine Indicator . . . . . 35
Chrome Wheel Care . . . . . 117
Cleaning and Storage . . . . . 115-120
Clothing . . . . . 9
Clutching Chart . . . . . 128
Coolant Bottle . . . . . 83
Coolant, Radiator . . . . . 84
Cooling System . . . . . 83-84
Corrosion Removal, Chrome . . . . . 117

## D

Demand Drive Fluid . . . . . 82
Diagnostic Codes . . . . . 36-37
Display Units, Standard/Metric . . . . 32
Drive Belt Wear/Burn . . . . . 122
Drivetrain Break-In . . . . . 39
Driving Downhill . . . . . 47
Driving in Reverse . . . . . 54
Driving on a Sidehill . . . . . 46
Driving on Slippery Surfaces . . . . . 50
Driving Over Obstacles . . . . . 51
Driving Procedures . . . . . 42
Driving Safely . . . . . 45
Driving Through Water . . . . . 52-53
Driving Uphill . . . . . 44-45

## E

Electromagnetic Interference . . . . . 70
Electronic Power Steering . . . . . 23
Engaging 4X4 . . . . . 27
Engine Break-In . . . . . 39
Engine Fogging . . . . . 119
Engine Oil . . . . . 76
Equipment Modifications . . . . . 9
Error Codes, Engine . . . . . 35
Exhaust Emission Control System . . 70
Eye Protection . . . . . 9

## F

**Fluid**
Brake . . . . . 85-86
Coolant . . . . . 83-84
Demand Drive . . . . . 82
Engine Oil . . . . . 76-79
Transmission Oil . . . . . 80-81
**Fluid Change**
Demand Drive . . . . . 82
Engine Oil . . . . . 78-79
Transmission . . . . . 81
**Fluid Level**
Demand Drive . . . . . 82
Engine Oil . . . . . 77
Transmission . . . . . 81

# INDEX


### F

Foot Brake . . . . . 24
Footwell Removal . . . . . 91
Fuel Recommendations . . . . . 26
Fuel Tank Cap . . . . . 26
Fuse Replacement . . . . . 96

### G

Gauge, Code Definitions . . . . . 36-37
Gauge, Digital/Analog. . . . . 28-35
Gear Selector . . . . . 26
Gloves . . . . . 9

### H

Handlebar Adjustment. . . . . 113
Hauling Cargo . . . . . 56-57
Hazard Warning Switch. . . . . 21
Headlight Lamp . . . . . 98
Headlight Switch . . . . . 21
Helmet . . . . . 8
High Beam Adjustment . . . . . 97
High Beam Switch, Momentary . . . 22
High Range Use. . . . . 106
Horn Switch. . . . . 21

### I

Idle RPM Adjustment . . . . . 114
Immersion Maintenance . . . . . 102
Indicator Lamps. . . . . 29
Instrument Cluster . . . . . 28-37

### K

Key Switch. . . . . 22
K-Turn . . . . . 48-49

### L

Light Switch. . . . . 22
**Lights . . . . . 97-99**
Front Turn Signal . . . . . 99
Headlight Lamp . . . . . 98
High Beam Adjustment . . . . . 97
Low Beam Adjustment . . . . . 97
Parking Light Lamp . . . . . 98
Position Light Lamp . . . . . 98
Rear Turn Signal. . . . . 99
Taillight. . . . . 99

### L

Low Beam Adjustment . . . . . 97
Low Range Use . . . . . 106
Lubrication Guide . . . . . 75

### M

Maintenance Chart. . . . . 71-74
Metric Display . . . . . 32
Mirrors . . . . . 22
Mode Switch . . . . . 20
Modifications. . . . . 9

### N

Noise Emission Control System . . . . 70

### O

**Oil**
Engine . . . . . 76-79
Transmission. . . . . 80-81
Oil and Filter Change . . . . . 78-79
Oil Change, Transmission . . . . . 81
**Oil Level**
Engine . . . . . 77
Transmission. . . . . 81
Oil Recommendations . . . . . 76
Operator Safety . . . . . 10-16
Override Switch. . . . . 20

### P

Parking Brake . . . . . 25
Parking on an Incline. . . . . 55
Periodic Maintenance Chart . . . . 71-74
Polaris Product List . . . . . 126
Polishing the Vehicle. . . . . 116
Power Steering. . . . . 23
Power Steering Unit (Cleaning) . . . . 89
Pre-Ride Checklist. . . . . 40
PVT Break-In . . . . . 39
PVT Drying . . . . . 106
PVT System. . . . . 104-106

## R

Reverse Operation. . . . . 54
Reverse Override Switch . . . . . 20
Rider Information Center . . . . . 30-35
Riding Gear. . . . . 8-9

## S

Safety Labels. . . . . 17-19
Safety Training . . . . . 8
Safety, Winch Maintenance . . . . . 69
Severe Use . . . . . 71
Shock Loading the Winch. . . . . 67-68
Side Panel Removal . . . . . 90
Sidehilling. . . . . 46
Signal Words. . . . . 4
Spark Arrester. . . . . 103
Spark Arrester Requirements . . . . . 70
Spark Plug Inspection. . . . . 100-101
Spark Plug Recommendations . . . . 100
Spark Plug Torque Specification . . 100
Spark Plugs. . . . . 100-101
Specifications . . . . . 127-128
Speedometer . . . . . 28
Spring Adjustment, Rear Shock . . . 113
Starting the Engine . . . . . 41
Steering Assembly . . . . . 89
Steering Lock . . . . . 25
Stop Switch. . . . . 20
Storage . . . . . 115-120
Storage Tips . . . . . 118-120
**Switches**
- 4X4 Switch. . . . . 27
- Engine Stop Switch . . . . . 20
- Hazard Warning. . . . . 21
- Headlight Switch . . . . . 21
- Horn . . . . . 21
- Main Key Switch . . . . . 22
- Mode/Reverse Override Switch. . 20
- Momentary High Beam Switch . . 22
- Turn Signal. . . . . 21
- Winch Switch. . . . . 22

## T

Taillight. . . . . 99
Throttle Body Adjustment . . . . . 114
Throttle Cable Freeplay Adjustment 114
Throttle Lever. . . . . 23
**Tires . . . . . 92-93**
- Tread Depth . . . . . 92
- Wheel Installation . . . . . 93
- Wheel Nut Torque . . . . . 93
- Wheel Removal . . . . . 92

Toe Alignment . . . . . 88
Towing Loads. . . . . 57
Training. . . . . 8
Transmission. . . . . 26
Transmission Oil. . . . . 80
Transporting the ATV. . . . . 121
Turn Signal Lamp, Rear . . . . . 99
Turn Signal Replacement, Front. . . . 99
Turn Signal Switch . . . . . 21
Turning Around on a Hill . . . . . 48-49
Turning the Vehicle . . . . . 43

## V

Vehicle Identification Numbers . . . . . 6
Vehicle Immersion . . . . . 102
VIN . . . . . 6

## W

Warning Symbols . . . . . 4
Washing the Vehicle. . . . . 115-116
Wheel Hub Tightening . . . . . 92
Wheel Installation. . . . . 93
Wheel Nut Torque Specifications. . . 93
Wheel Removal . . . . . 92
Winch Cable Care. . . . . 66
Winch Maintenance/Service Safety . 69
Winch Operation. . . . . 61-65
Winch Safety Precautions. . . . . 58-60
Winch Shock Loading . . . . . 67-68

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